

MANUFACTURERS' RECORD

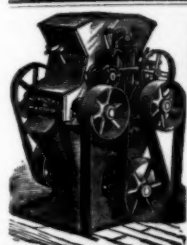
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Vol. XI. No. 7.
WEEKLY.

BALTIMORE, MARCH 26, 1887.

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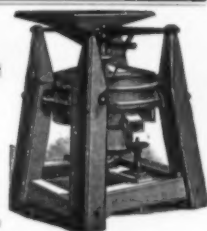
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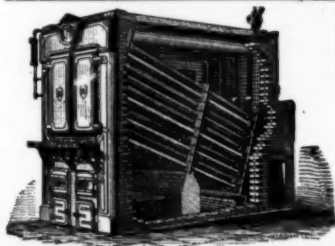
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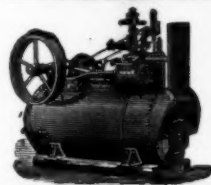
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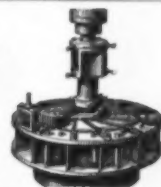
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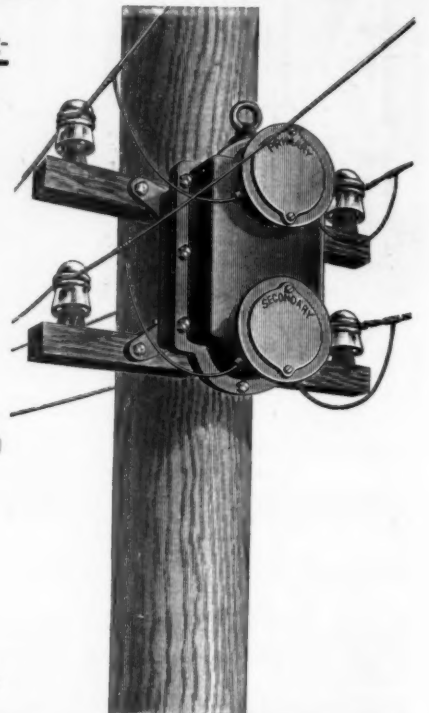


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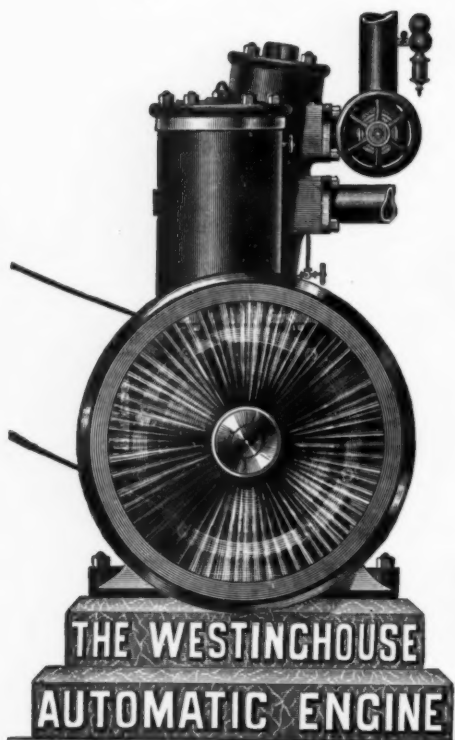
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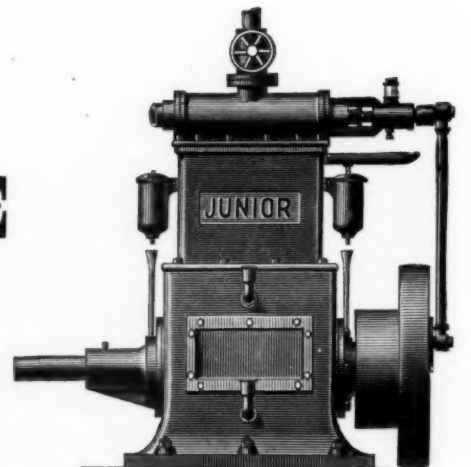
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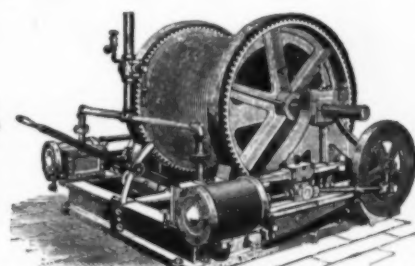
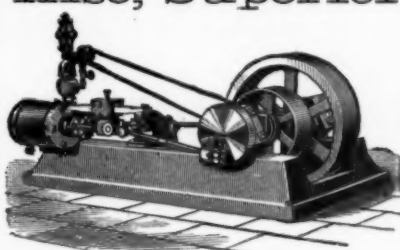
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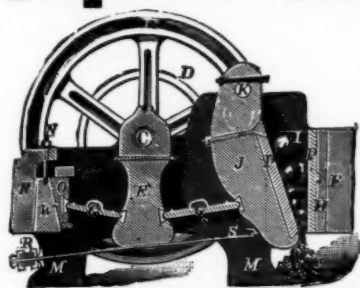
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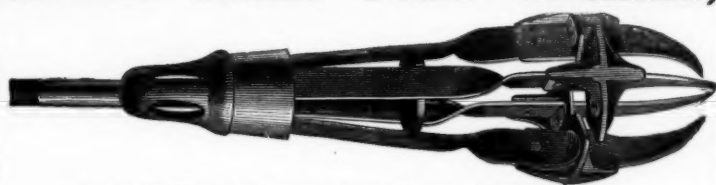
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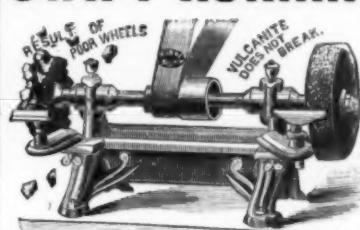
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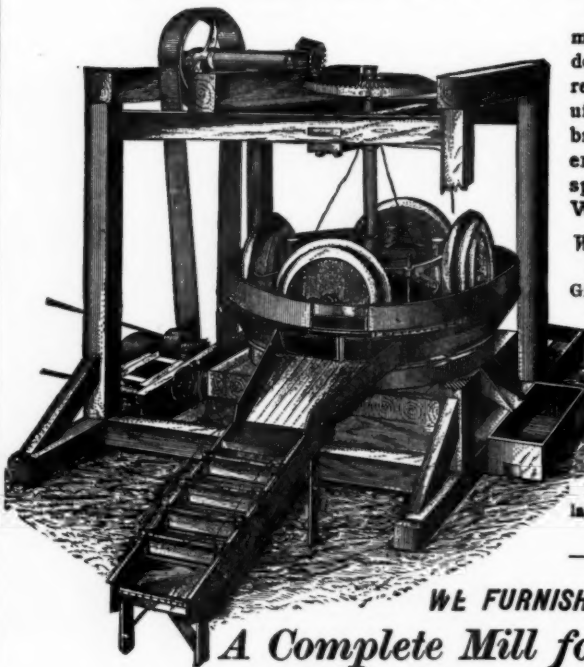
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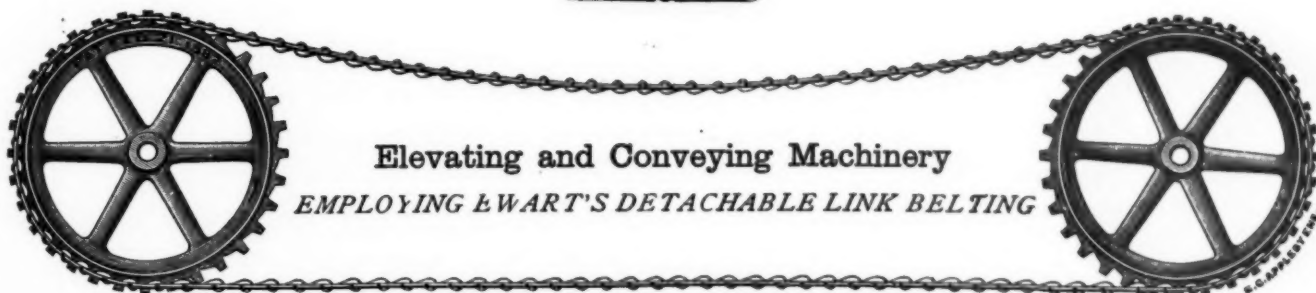
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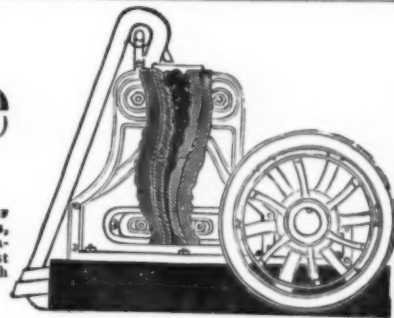
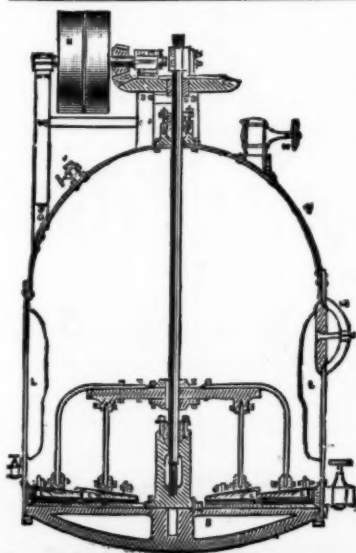
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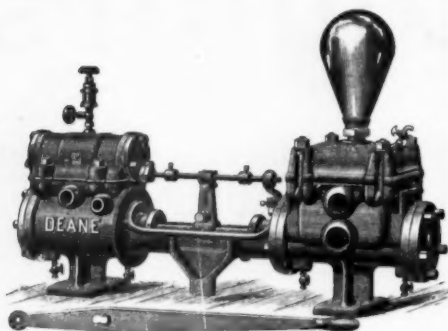
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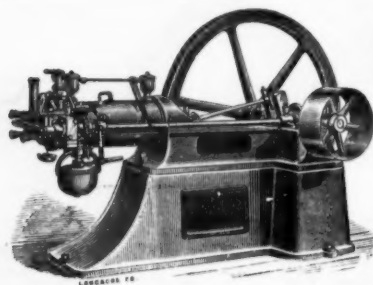
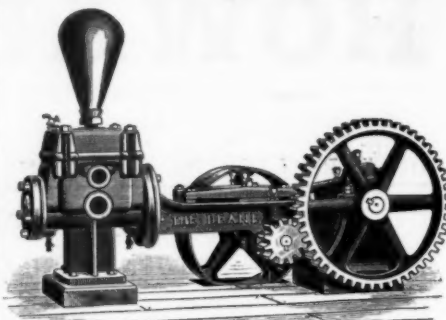
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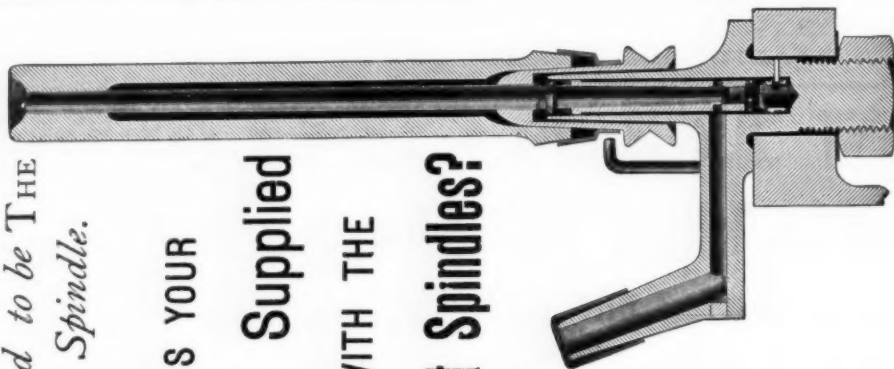
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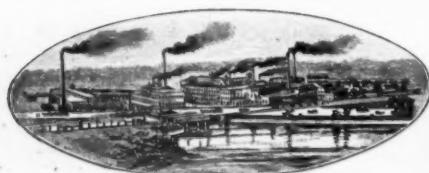
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BALTIMORE, MARCH 26, 1887.

Make Your Own Boom.

Under the above heading the New Orleans Picayune makes some very excellent suggestions based on the complaints uttered by a Louisiana paper as to the dullness and stagnation in its locality, that may with equal propriety be applied to many other places all through the South. Commenting on the remarks of the Morehouse Sentinel the Picayune says:

"Morehouse parish is one of the best in North Louisiana. The land is rich and the people are industrious, honest and intelligent. Of the total white voters in its limits there are only twelve who are illiterate, which is vastly more than can be said of many other parishes in the State. Such a population ought to be able to do as much as any people anywhere, and yet in the face of all that the Morehouse Sentinel puts up a despairing and pitiful wail. * * No people are so helpless as those who will not help themselves. There are in the parish magnificent forests of timber, while the soil is capable of producing everything the people can need. They have an opportunity to make themselves independent if they will use the means. They can raise everything required to sustain man and beast, and instead of spending all their energies on cotton let them only make cotton as a cash crop while due attention is paid to the production of food crops. As for booms they must be made. They never come to those who idly wait for them. Organize immigration societies and farmers' clubs, as other enterprising people in the State are doing. Let the Sentinel agitate these and other movements which circumstances may suggest. Stir things up yourselves and you will attract the attention of others. A supine and apparently helpless attitude, instead of exciting sympathy, has a contrary effect. People seeking opportunity for the investment of capital or places to live will always avoid a dead community. We are constrained to believe that the Sentinel is at fault in not arousing the people of the parish to activity. It will not do to sit still and lament dull times. The only hope is in the manifestation of a proper energy. Get up and go to work on a new line if the old routine fails. This is the age of hard work and small pay. Then work the harder. Make your own boom."

This is most excellent advice. It is the place where the business men are alive to the interests of their town, where energy and enterprise are displayed in developing their own industries that is sure to attract the attention of outsiders. The dead town where the people wait for somebody else to come in and build it up, will in all probability never be built up.

The New Oil Mills.

Just when the papers all over the country were announcing the abandonment of the building of new cotton-seed oil mills, and stating that the whole thing had been merely a speculative move of Armour & Co., the MANUFACTURERS' RECORD, knowing that Armour was not even interested in the company, published an official statement from Mr. Henry C. Butcher, the president of the Southern Cotton Oil Co., that the mills would positively be built; and we added to this that a large amount of machinery had already been purchased. The day after this was sent out by the Associated Press, a dispatch from Philadelphia announced the signing of one contract by this company for \$266,000 worth of machinery for these mills. In this case, as in others, the MANUFACTURERS' RECORD had taken the trouble to get at the exact facts, and when it announced that the building of these mills did not depend upon Mr. Armour, we knew just what we were saying. In our last issue we stated that Armour & Co. had worked this business to its fullest extent as an advertisement of themselves, and, commenting on the same subject, the Cincinnati Price-Current says:

"There has been much endeavor and industry by interested parties in discrediting the solidity and the intentions of this new enterprise. But in due time the facts in the case will assert themselves.

Mr. Armour's name has been freely used—and has been 'worked' to the advantage of Armour & Co., as well as temporarily for the American Oil Trust. Mr. Armour realized the power he had, and availed himself of it in securing a contract with the Trust for oil, understood to be on the basis of cost—which affords to the Trust no profit for the benefit of a dividend fund, from this source. But on being able to announce the completion of this contract the Trust folks worked the market for certificates up to 56—from which they have since receded several points.

Mr. Armour was invited to become a stockholder in the new company; he was apparently as anxious to be in it as others were to have him in. But when he made it known that he wanted a majority of the stock, and a controlling power by naming a majority of the board of directors, and insisted on these matters, there was a hitch. The policy of the projectors of the movement was against any monopolistic feature, which an Armour power would have been suggestive of.

The new company has, as subscribers to its stock, men of large financial resources, some of whom do not care to be known in the enterprise, but who have the highest confidence not only in the men composing the management, but also in the business prospects of the enterprise. The promoters and managers are themselves men of large financial strength, and the highest order of practical experience in the cotton oil industry."

What the Price-Current says about Armour's refusal to join the company unless he was allowed a controlling interest is, we believe, correct. In refusing to accede to this demand the organizers of the new company acted very wisely; the company, as well as the South, will be the better off for not allowing this one firm to control this enterprise. As it stands to-day, the Southern Oil Co. can, we believe, fully duplicate for its \$5,000,000 of capital the entire crushing capacity of all the mills in the Cotton Oil Trust,

which has issued its certificates, it is understood, for about \$40,000,000. Hampered by this enormous capitalization, consisting largely of water on which to pay dividends, with old mills and old machinery, the Trust will find in this company a competitor that will be fully able to meet all its efforts to destroy.

And yet, while this is true, the new company deserves to be heartily supported by the South. Everyone knows the galling bondage under which the petroleum interests of the country labor by reason of the Standard Oil Company's gigantic monopoly. Until the Southern Oil Co. entered the field, it seemed that the South was doomed to suffer from just such another monopoly which really looks to be the child of the Standard—for certainly the resemblance is striking. The South now has the prospect of having the growing power of this monopoly broken, and it behooves those who are interested in this section to give all possible aid to the new company, because upon the success of that depends the question as to whether there shall be competition in this industry or whether to the loss of the planters and the South in general, the whole cotton oil business shall be in the hands of a great monopoly.

The new company proposes to build mills to cost about \$125,000, each, at the best points in the South. A few places have already been determined upon, but there is still an opportunity for the cities that desire an enterprise of this kind, and that are well located for it, to let it be known what inducements they will offer to secure one of these mills. The value to any town of securing one of these mills would be so great that it can readily be understood without any suggestions from us. Including the working capital, each mill will probably represent an investment of about \$250,000.

IN writing to the MANUFACTURERS' RECORD regarding the immense good that the South is to derive from the placing of a copy of "The New South" in every important hotel in the country and in the saloon of all foreign coastwise and inland steamers, as announced in our last issue, a well-known minister of this city, who, by the way, is a regular reader of this paper, says:

Your new departure in advertising the book startles me. You are far in advance of others. You certainly have great faith in printers' ink. Well, "adventures make merchants." The people of the South must feel a deep interest in the book to learn from it, as they can from no other source, the immense wealth heaven has placed at their disposal, and the bright future they have before them, while other sections of our common country and Europe must wish to study it so that they may learn where is the best place to live and to invest. Through it and your MANUFACTURERS' RECORD, which I read every week with pride, pleasure and edification, you are serving not only the South but the whole country.

An Inexcusable Blunder.

It is to be regretted that writers will often either through wilful ignorance or else because it suits their purpose, by bolstering up some argument, publish things that are untruthful, taking no trouble to learn as to the correctness of the matter. A forcible illustration of this is found in a pamphlet just published by J. C. C. Newton devoted to showing what the work of the Methodist Episcopal Church, South must be in connection with the South under the new order of things in that section. This pamphlet is intended for a good purpose, but it republishes one of the outrageous falsehoods regarding a Southern State that the MANUFACTURERS' RECORD and so many other papers completely exposed several years ago, and thus gives countenance to and revives a slander that the slightest investigation would have shown the author was utterly without foundation. Discussing illiteracy in the South, the author says:

According to report of the State Auditor of Alabama for 1883, the total value of farm implements in the State was \$75,291. Total value of guns, pistols and dirks \$410,763.

In several counties, for—

	Farm Implements	Guns, Pistols, &c.
Coffee county.....	\$95	\$3,637
Covington county....	25	3,221
Escambia ".....	10	5,621
Geneva ".....	13	2,825
Winston ".....	15	1,686

In whole State, value of guns, pistols and dirks nearly six times the implements of the farm!

A mere glance at the above figures makes perfectly clear the secret of the illiteracy in these counties. We would expect when the gun and pistol are more valuable than the plow and the hoe, that ignorance abounds. One would think the gospel and the school were both needed in such a section as this. In the case of the counties named the matter might be explained by supposing that they are mountainous or otherwise unoccupied sections of the State, where farm lands have not yet been opened; but how can we explain it for the whole State, when we have \$75,291 for farm implements against \$410,763 for guns, pistols and dirks?

A moment's reflection would have shown the utter absurdity of these figures, and yet they seemed to have suited the author's purpose as enforcing his argument, and so in a publication scattered broadcast, and regarded as written in the interests of the South, and thus having more weight than if by an avowed enemy, such a misrepresentation as this is given to the world. Did it not occur to the writer of that book that it would have been utterly impossible to do Alabama's farming with \$75,000 worth of implements? Did he even attempt to verify these figures before giving them publicity?

Alabama for the purpose of encouraging agriculture, exempts agricultural implements from taxation, and hence their value does not appear in the tax returns, while to discourage the too free use of fire-arms, it taxes them and their value does appear in the tax statements. In this lies the whole explanation of the figures at which the writer of this pamphlet holds up his hands in such horror. If

unwilling to take the trouble to apply to the proper authorities as to the correctness of these figures, he could simply have turned to the United States Census Report of 1880 and found that in 1879, Alabama's agricultural implements were valued at \$3,787,978.

At times it becomes a little monotonous to be always correcting the false reports against the South, but the MANUFACTURERS' RECORD will try to keep up that line of work as often as is necessary, until public writers and speakers cease to do evil by misrepresenting that section.

Our Foreign Commerce.

A study of the report of the imports and exports of the United States for the seven months from July 1, 1886, to January 31, 1887, as compared with the corresponding time of the preceding year, gives some interesting facts as to our foreign trade.

The total value of the imports of merchandise for the seven months ended January 31, 1887, was \$386,795,063, against \$354,261,124 for the same months of the preceding year. Of dutiable and non-dutiable merchandise the value of imports were:

	Seven months ended Jan. 31, '87.	Jan. 31, '86.
Dutiable.....	\$258,586,000	\$233,557,012
Non-dutiable.....	128,209,043	120,704,112

In the imports of dutiable articles there was an increase of \$25,000,000, against an increase of \$7,500,000 in free goods. Of non-dutiable articles the values for the leading commodities compare as follows:

	Seven months ended Jan. 31, '87.	Jan. 31, '86.
Animals.....	\$2,023,545	\$1,930,881
Chemicals and drugs, &c.....	13,818,686	13,858,048
Coffee.....	24,435,946	25,890,174
Eggs.....	1,472,738	1,589,303
Fruits.....	2,103,094	1,835,133
Hides and skins.....	14,475,459	14,498,186
Paper stock.....	2,453,738	3,010,604
Silk, raw.....	12,400,891	11,374,125
Spices.....	2,124,099	1,843,535
Tea.....	12,412,317	12,540,836
Articles from Hawaiian Isls.	3,874,887	3,382,478

The largest increase was in coffee, where there was a gain of \$1,600,000, while in other articles the gains were mostly small.

Of dutiable articles the leading imports were:

	Seven months ended Jan. 31, '87.	Jan. 31, '86.
Animals.....	\$2,843,626	\$2,066,638
Breadstuffs.....	4,995,558	6,094,452
Chemicals, drugs, &c.....	7,477,299	7,528,674
Cotton, manufactured, including clothing, &c.....	16,385,100	16,043,199
Earthen and china ware.....	3,473,095	2,999,815
Fancy goods.....	4,353,977	3,315,978
Fish.....	2,254,419	1,943,683
Flax, hemp and jute, raw.....	6,111,757	4,839,556
Flax, hemp and jute, manuf'd.....	13,068,512	12,370,112
Fruits and nuts.....	9,349,038	9,162,709
Furs.....	2,945,029	2,676,135
Glass and glassware.....	4,310,019	3,816,503
Hats and Bonnets.....	2,950,865	2,493,094
Hops.....	2,835,410	359,391
Iron ore.....	1,215,044	350,681
Pig iron.....	3,023,853	1,646,676
Scrap iron.....	733,623	109,653
Scrap steel.....	113,924	21,246
Bars of iron.....	826,777	1,058,694
Bars of steel.....	206	150
Cotton ties.....	768,344	6,969
Hoop, band and scroll iron.....	210,750	415,229
Hoops and bands of steel.....	99	2,346
Ingot and blooms of steel.....	163,939	100,419
Sheet tigger's iron.....	2,555,554	855,929
Tin plates.....	399,967	463,358
Wire rods of iron or steel.....	8,329,695	8,571,643
Wire and wire rope.....	1,830,565	1,915,872
Anvils, axles and forgings of iron or steel.....	287,337	283,333
Chains of iron or steel.....	58,454	44,854
Cutlery.....	40,369	39,861
Files, file-blanks, rasps and floats.....	1,136,064	982,518
Fire-arms.....	36,088	25,287
Machinery.....	639,988	505,757
Needles.....	1,131,291	669,090
All other.....	886,575	184,551
Jewelry.....	5,748,313	4,124,884
Leather, unmanufactured.....	3,790,428	4,677,600
Leather, manufactured.....	3,036,180	2,650,816
Sugar and molasses.....	34,343,468	32,194,248
Wines.....	3,893,446	3,853,606
Wood and manufactures of.....	6,295,346	5,781,389
Wools, unmanufactured.....	10,103,089	9,405,425
Wools, manufactured.....	28,452,988	25,230,690

Of the imports of iron and steel goods the increase this year is very noticeable. We imported of iron ore for the seven months ended January 31, 1887, over 642,000 tons, against 277,000 for the same time of the preceding year; of pig iron the imports were 196,268 tons, against 100,777 tons; of steel ingots and blooms 281,000,000 lbs., against 51,899,000 lbs.

The principal articles of export were:

	Seven months ended Jan. 31, '87.	Jan. 31, '86.
Animals.....	\$6,878,058	\$7,666,979
Breadstuffs.....	94,974,563	64,208,242
Chemicals and drugs.....	3,017,267	3,021,340
Cotton, raw.....	150,016,633	131,797,638
Cotton, manf.....	8,114,483	6,966,450
Iron and steel and manf. of.....	8,535,387	10,119,876
Oils, mineral.....	28,821,755	30,746,053
Provisions.....	57,539,536	54,802,899
Sugar and molasses.....	7,666,652	7,587,786
Tobacco and manf. of.....	22,695,688	21,860,120
Wood and manf. of.....	10,253,069	11,644,770

MR. F. A. HULL, of Danbury, Conn., in a letter to the MANUFACTURERS' RECORD, says:

The publication and free distribution to hotels, steamers, &c., of "The New South" certainly places that section of the country and the people that are putting their money into Southern lands and enterprises under great obligations to you. It is a bright bit of enterprise that will bring you a return of many loaves for the crumbs you are so literally "casting upon the waters."

I feel under direct personal obligation, as I am now heavily interested in the real facts relative to the intrinsic value of Southern timber and mineral lands being made known, having been steadily buying up lands in the extreme southeast counties of Kentucky for two years past, until now I own about 110,000 acres (all heavily timbered and underlaid with coal).

I returned last week from my second trip of inspection, having rode over 600 miles horse-back (and mule-back) in following out the old surveys and examining the properties. I am simply delighted with the country and the natives. A more honest and hospitable people do not live anywhere, and I doubt if there is a section in the country of equal extent and equally undeveloped where a peaceably disposed stranger can travel with as complete safety to person and purse.

Two of Anniston's Big Enterprises.

ANNISTON, ALA., March 14, 1887.

Editor Manufacturers' Record:

The largest pipe foundry in America, for making gas and water pipes, will be built at Anniston, under charge of Mr. Latham Anderson, civil and hydraulic engineer, of Cincinnati. The plans will be the newest and most complete of any modern plant in the United States. Every modern appliance to handle large quantities of metal and pipe will be adopted. The capacity of the foundry will be three hundred tons per day. The iron used will be made from the celebrated Woodstock ores, and will be made by the two coke furnaces now being erected at Anniston. It is estimated that the two coke furnaces will be the largest in the South, and the pipe foundry and steel bloomery will add three thousand workmen to Anniston's industries this year.

The new bloomery of Messrs. Morrison Bros. & Co. will have a capacity of 20 tons daily. It will employ 60 men, mostly skilled laborers. The investment will be \$25,000; the output valued at \$1,000 per day, or \$300,000 to \$500,000 annually. The product will be a high grade of iron for cotton ties, horse-shoes, car axles, boiler plates, &c. The owners will add a train for reducing to proper dimensions these goods. The pay-roll will be from \$5,000 to \$6,000 per month. The location of the bloomery is within the corporate limits of Anniston, between the Georgia Pacific and Anniston & Alabama railroads.

The Coinage of 1885-'86.

BY I. W. AVERY.

[For Baltimore MANUFACTURERS' RECORD.]

The report of the director of the mint is just printed and being distributed.

I have been looking into this report and find some very interesting facts in it.

There are five mints, viz: at Philadelphia, San Francisco, Carson, New Orleans and Denver. The year's expenses for 1885-'86 were \$1,067,345, or \$194,256 less than the year before, and leaving \$221,980 unexpended in the treasury.

This demonstrates the substantial economy of Cleveland's Democratic administration, and the fact becomes more conspicuous when it is stated that the coinage was greater than the year before. The coinage of the year 1885 was thus:

	Pieces.	Value.
Gold.....	3,002,313	\$27,773,012
Silver.....	31,295,544	28,062,176
Minor.....	13,246,664	191,622
Total.....	47,544,521	\$56,026,810

This was the largest coinage of any country in the world in both gold and silver, Australia coming 2d in gold coinage with 21½ millions, and Russia 3d with 20½ millions, and Great Britain 4th with 14½ millions—the three last with sparse silver coinage; while Mexico comes 2d in silver with 25¾ millions, and India 3d with 20½ millions, and Japan 4th with 6½ millions.

The deposits of unrefined gold at the mints and assay offices in 1885 were \$15,830,024, against \$18,362,769 in 1884, and of refined gold \$12,444,432 in 1884, and \$15,063,160 in 1885, showing the tendency to seek private refineries instead of those of the mints.

The estimated gold production in the United States of 1885 is \$31,801,000.

The estimated silver production in the United States for 1885 is \$51,600,000, against \$48,800,000 for the year 1884—showing \$3,400,000 increase.

We thus have a total precious metal production in the United States in 1885 of \$83,401,000.

The following table will be found to be interesting, as it furnishes the details of this large metal production:

State.	Gold.	Silver.	Total.
Alaska.....	\$300,000	\$2,000	\$302,000
Arizona.....	880,000	3,800,000	4,680,000
California.....	12,700,000	2,500,000	15,200,000
Colorado.....	4,200,000	15,800,000	20,000,000
Dakota.....	3,200,000	100,000	3,300,000
Georgia.....	136,000	136,000
Idaho.....	1,800,000	3,500,000	5,300,000
Montana.....	3,300,000	10,000,000	13,300,000
Nevada.....	3,100,000	6,000,000	9,100,000
New Mexico.....	800,000	3,000,000	3,800,000
North Carolina.....	152,000	3,000	155,000
Oregon.....	800,000	10,000	810,000
South Carolina.....	43,000	43,000
Utah.....	180,000	6,750,000	6,930,000
Washington.....	120,000	70,000	190,000
Tex., Ala., Tenn.
Ver., Mich., Wy.	90,000	5,000	95,000
Total.....	\$31,801,000	\$51,600,000	\$83,401,000

It will be seen that Colorado leads, with 20 millions; California 2d, 15 millions; Montana 3d, 13½ millions; Nevada 4th, 9 millions; Utah 5th, nearly 7 millions; Idaho 6th, 5½ millions; Arizona 7th, 4½ millions; New Mexico 8th, 3½ millions, and Dakota 9th, 3½ millions.

It is a significant fact that a large part of the silver production is incident to the mining of gold and baser metals.

Noting the change from 1884 to 1885, Arizona, California, Colorado, Dakota all fell off a little, while New Mexico and Utah made small increase; and Montana enlarged her production 45 per cent., and Idaho, 40 per cent.

Looking at imports and exports we find that in 1885 the United States imported \$41,418,029 of bullion and coin, and exported \$44,697,749, or an excess of exports of \$3,279,720. But our gold exports were 11½ millions, against 23½ millions of imports, gaining in gold 12½ millions. Our silver exports were 33½ millions, and our silver imports 17½ millions, or a loss of 15½ millions of silver.

A most interesting phase of this subject is the consumption of gold and silver in the

industrial arts. We find the use thus reported:

	Gold.	Silver.
1880.....	\$8,634,193	\$3,404,169
1881.....	10,086,723	3,386,421
1883.....	14,459,464	5,556,530
1885.....	11,152,120	4,598,413

This shows a decrease from 1883 to 1885, due, it is conjectured, to financial depression.

The character of the material used is thus given:

1885.	Gold.	Silver.
United States coins.....	\$2,827,378	\$133,644
Stamped U. S. or refinery bars.....	6,234,034	3,836,003
Foreign coin.....	178,913	62,708
Old jewelry, &c.....	847,715	245,413
Native nuggets.....	502,893	1,000,000
Wire or rolled plate.....	581,187	216,773
Total.....	\$11,152,120	\$4,598,413

It is a curious fact that less gold coin has been used—\$4,875,587 in 1883 and \$2,827,378 in 1885.

It is estimated that in the world \$57,400,000 gold is used in the industrial arts and \$18,800,000 of silver, or \$76,200,000 altogether, the countries thus ranking:

United States.....	\$17,000,000
England.....	14,500,000
France.....	11,400,000
Germany.....	11,200,000
Switzerland.....	7,600,000
Austria-Hungary.....	1,000,000
Other countries.....	13,500,000
Total.....	\$76,200,000

The recoinage in this country is estimated at \$9,500,000.

It is estimated that the coin circulation in the United States January 1, 1886, was as follows:

Gold.....	\$534,235,453
Silver.....	293,293,872
Total.....	\$827,529,325
Bullion—Gold.....	72,938,221
Silver.....	4,013,832
Grand aggregate.....	\$905,081,378

Gold..... \$607,173,674

Silver..... \$297,907,704

This coin was held as follows:

U. S. treasury.....	\$253,321,587
National banks.....	165,354,397
State banks, &c.....	31,255,789
Private.....	455,149,605
Total.....	\$905,081,378

From 1880 to 1885 the mines of the United States have produced from 75 to 70 millions of gold and silver, varying very little. The largest yield was in 1878, when it ran to 96 millions. The largest import of gold was 100 millions in 1881; the largest export was 41 millions in 1884. The largest import of silver was 16½ millions in 1885, and largest export 33 millions the same year.

The loss on metal money runs from one-half to one-fifth per cent. a century.

THE Nashville Union, which has just entered upon its third year, deserves to be congratulated upon its great success. In two years it has attained a position as one of the foremost papers of the country. As one of the most progressive papers of the South, it has accomplished great good for that section.

THE Argus copies freely from the Baltimore MANUFACTURERS' RECORD, because it treats matters in which the South is now so much interested with common sense views. It is doing more helpful work for our section than any other single agency that we know of, and very much in the way of gratuitous advertising.—Dalton (Ga.) Argus.

MR. F. PENCE, Rome, Ga., in sending in his subscription to the MANUFACTURERS' RECORD, says: "I esteem it highly, and recommend all to subscribe for it who wish to see the waste places of our favored country built up."

THE Baltimore MANUFACTURERS' RECORD is one of the most useful exchanges we have, and always contains everything of interest connected with the South and its industrial and other resources.—Lynchburg Advance.

What the Papers Say.

The Press on Our New Book.

The warmth of the welcome which "THE NEW SOUTH" has received from the press and the people of the country is very gratifying. From all sections there have come the strongest commendations, and the demand for it shows that there was need for just such a work. It ought to be read by every one North and South, as well as in Europe, interested in the great future of the Southern States. Especially should the people of the South study its facts and figures, as it will give them information of great value as to the marvelous resources and the wonderful progress of their own section. It will be sent, prepaid, handsomely bound in cloth, upon receipt of the price, \$2.50; or in full Russia, gilt edges—a magnificent volume—for \$3.

We give a few of the press notices of this book:

EVERY MAN'S DUTY TO BECOME ACQUAINTED WITH IT.

[Nashville Daily Union.]

In concluding a column review of THE NEW SOUTH, the Union says: "The character of this book, so laden with facts as it is, must be justification, if any is required, for the large quotations which have been made. It will be found impossible for any mere description to give an adequate idea of the richness of its contents. It is a serious book, which will require for a full appreciation of its worth nothing less than patient and thoughtful study. It is a book that will interest every citizen that cares for the welfare of his country, and, while appealing to his patriotic sentiments, it will also generally be found serviceable in his individual enterprises. In short, it is a book which every man, especially of the South, whatever his calling or pursuit, should consider it his duty to become acquainted with."

A PERFECT STOREHOUSE OF VALUABLE INFORMATION.

[N. Y. Daily Commercial Bulletin.]

As its title implies, the work is an exhaustive (and we doubt not wholly reliable) record of the remarkable development of Southern industrial and commercial enterprises from the time that the people there first began to be relieved from the disheartening influences which dominated them after the close of the civil war—a development which has been steadily progressive down to the present time. It embodies a very full description of the wealth, resources and capabilities of each State separately, giving their distinctive features and most salient characteristics. The volume, in fact, is the work of experts, and a perfect storehouse of valuable information in all that relates to the South, and which cannot be procured elsewhere.

A TIMELY BOOK.

[N. O. Times-Democrat.]

The Baltimore MANUFACTURERS' RECORD, which has been one of the most earnest friends of the South, and devoted itself to showing the rapid advances of this section, has just published a book on "THE NEW SOUTH," by Mr. M. B. Hillyard, which gives a most thorough and exhaustive review of the several Southern States, noting each State separately and giving its distinct features and most salient characteristics. *** His summing up of the advantages the South possesses in its climate, its exemption from insects, its variety of products, its abundance of water courses, the absence of drouths, the presence of natural fertilizers is one of the strongest presentations of the good points of this section ever made.

After reviewing the South generally, Mr. Hillyard takes up each State and reviews all its industries, thoroughly giving all the latest statistics as to them. "THE NEW SOUTH" is a timely book, giving, as it does, information on a subject about which the whole country is inquiring just now.

A GRAND SUCCESS.

[Columbus (Ga.) Enquirer-Sun.]

THE NEW SOUTH, treating of its resources and attractions, is the name of an elegantly bound book of over 400 pages. It is published by the Baltimore Manufacturers' Record Co., and is just from the press. The book in its entirety is a "description of the Southern States, noting each State separately, and giving their distinctive features and most salient characteristics," each of which is most faithfully portrayed. The fact that much of it is the reports of experts commends it to the general public. The book must be read to appreciate the labor expended upon the compilation of statistics, which alone makes it one of the most valuable of the kind that we have had the pleasure of examining. There is one feature of this work that should command attention, and that is the accuracy with which facts and figures are presented. It is quite true that all the facts nor all the figures of which it treats are given; this would take whole volumes in folio, but enough are presented to show the wonderful resources of the South, and to be of inestimable benefit in the circulation it will secure beyond the confines of the Southern territory. Even our own people are hardly aware of the great strides of progress that has been wrought within the past few years, and much of the contents of this book will come to them in the nature of a revelation. We commend it to the public, and heartily congratulate the author and the publishers for the grand success which they have achieved.

WILL FILL A LONG-FELT WANT.

[Baltimore Daily American.]

The publishers of the Baltimore MANUFACTURERS' RECORD have just issued "THE NEW SOUTH: Its Resources and Attractions," a handsome volume of 405 pages. Every State in the South, from Maryland to Texas, is taken up and treated of in an exhaustive way. Valuable statistical tables are furnished to show the rapid growth in that section of the country. A vast deal of reliable and useful information may be found in the book about wheat, corn, sugar, rice, cotton, cotton-seed oil, coal, iron, the great mining districts, relative cost of manufacture of iron, tobacco, lumber, stock, fruits, railroads, mills, cost of land, varieties of soil, with different products of various sections, and much else that cannot be obtained from other sources. The book will fill a long-desired want, and open the eyes of our Northern friends to the resources of our Southern land.

WORTHY OF A PLACE IN EVERY LIBRARY IN THE LAND.

[Richmond Daily Whig.]

We acknowledge the receipt from the publishers, the Manufacturers' Record Co., of Baltimore, of a copy of THE NEW SOUTH, elegantly bound in Russia leather. This handsome volume presents a valuable compendium of Southern resources and industrial statistics, which give an encouraging exhibit of the recent rapid progress of this favored section, as well as an enlarged idea of its immediate possibilities. It contains a separate description of each one of the Southern States, giving their distinctive features and most salient characteristics, and embodying a fund of useful and practical information alike to those who are actually or prospectively interested in their development. It is worthy of a place in every private and public library in the land.

A MOST SATISFACTORY PUBLICATION.

[Atlanta Constitution.]

One of the most satisfactory statistical publications dealing with Southern resources

and possibilities that we have seen is a work entitled "THE NEW SOUTH," by M. B. Hillyard, published by the Baltimore Manufacturers' Record Co. In this work Mr. Hillyard gives an exhaustive summary of each Southern State. Our agricultural products, iron, steel, coal, cotton-seed oil, cotton goods, flour, timber and other industries are fairly reviewed. Taken in connection with the volume of Southern statistics recently issued by the federal government, this book will give outsiders a better idea of the material greatness of the New South than anything that has yet appeared in print. As straws show the direction of the wind, so the publication of such hand-books may be regarded as an unerring indication of the growing interest in all that concerns the people and the resources of our favored region. The signs of the times are all that we could desire.

WORTHY OF THE HIGHEST COMMENDATION.

[Lynchburg (Va.) Daily News.]

We have received from the MANUFACTURERS' RECORD COMPANY, Baltimore, a copy of their recent publication, "THE NEW SOUTH," which was briefly mentioned in our telegrams yesterday. It is in every respect a work worthy of the highest commendation, and must necessarily prove of inestimable value in attracting the attention of outside capitalists to the unsurpassed natural wealth and fertility of our Southern county. The MANUFACTURERS' RECORD, in this respect, has been doing a great work for the South, and it affords the News pleasure to attest its appreciation of such service. The volume to which reference is had is handsomely bound in Russia, gilt-edge, and in typographical neatness is a marvel of excellent taste. Virginia is given large space in the book.

A BOOK WORTH HAVING.

[Montgomery (Ala.) Advertiser.]

"THE NEW SOUTH—Its Resources and Attractions—The MANUFACTURERS' RECORD, Baltimore." This volume purports to be and is a complete resume of the industrial resources of the 14 Southern States. The author gives a general introduction which illustrates forcibly the wonderful recuperative energy developed here, and he sketches broadly the materials of the wealth lying in profusion, but undeveloped everywhere between the Potomac and the Gulf. No man can read this work without being impressed by the fact that this section has a marvelous destiny yet before it, and in this destiny as appears from these statistics Alabama will have her full and great share. Everyone interested in the welfare of his State should have this book.

A VALUABLE BOOK.

[Baltimorean.]

We are indebted to the publishers of the Baltimore MANUFACTURERS' RECORD for a copy of their recent publication entitled, "THE NEW SOUTH; its Resources and Attractions." It is very handsomely bound and the typography faultless, but these considerations are only secondary, when compared with the valuable information comprised within its over 400 pages. There is not a Southern State from the Susquehanna to the Rio Grande, that does not receive the most minute attention, as to the exhaustive resources they contain. The rapid growth of the whole South is shown by reliable and elaborate statistical tables, and there is much useful information imparted for readers in all sections of the United States. To the capitalist seeking investment, or the immigrant in pursuit of a good location, this book will prove of great value. Either can learn all he may desire concerning the vast resources of the South. The book tells about corn, wheat, rice, sugar, cotton, fruits, coal, iron, the mining districts of fabulous wealth, relative cost of the manufacture of iron, tobacco, lumber, stock, mills, railroads, the value of land, varieties of soil, with the different productions of various sections, and much other information that it would be difficult to procure from any other source.

MINING NOTES.

By T. K. BRUNER, Raleigh, N. C.

A BIG SCHEME.

Mr. William Nance, a London mining engineer, has succeeded in interesting a number of English capitalists in the placer and quartz vein mines of Stanly county. The properties alluded to are the "Biles" and "Parker" mines. The former has been operated for about a year on a small scale, and has been made, for the most part, remunerative during that time. The ore is free milling—free gold in milky quartz—and is taken from veins which have not, however, been marked to any great depth. This vein material closely resembles the float quartz on the adjacent placer grounds; in fact, the whole territory is filled with veins and "strings" of quartz, most of which is auriferous. Much of this is of sufficient grade to pay for milling, but collecting it is so expensive as to preclude this means of working it at present.

The Parker property is one of the best known placer mines in the State and has been worked with varying profit for a number of years; lately, however, it has been embarrassed by litigation, which has been an effectual barrier to the introduction of capital for its development. The trouble lay among the heirs of the old estate. They were scattered and had exaggerated ideas as to the value of the place, but happily Mr. Nance has succeeded in gaining common consent, and is proceeding with a perfect understanding with all interested. He is engaged in making a complete examination and will present an elaborate report for the consideration of the London syndicate. The conditions of this preliminary work are such as to make a transfer of the property imperative, should the examination prove the claims of the owners to be correct. There seems to be but little room for doubt on this score, as the record of production in the past has been very flattering.

PLAN TO BE PROPOSED.

This report is to embrace plans for working the property. The first and potent question is the water supply. In order to obtain a plentiful supply recourse must be had to the Yadkin river, which is four miles distant. This will require a large and powerful plant of pumping machinery and iron piping to raise the water to sufficient height to be effective in washing the surface. The quartz from both the washings and the small veins, exposed by the water, is to be carefully gathered in dumps and reserved for milling purposes, while the smaller stuff will go through a series of sluices. There are three leading veins on the property, on all of which shafts are to be sunk to a reasonable depth in order to estimate probable ore supply. The mill is to be built in proportion to the amount of ore thus demonstrated. The question of quantity will hardly come up, but more attention must be given the average of auriferous contents. There is no question as to that near the surface, but the ground has not been proven in depth. The outlook at present is entirely favorable to the contemplated investment.

THE PHOENIX AGAIN.

Reference was had in a recent number of the MANUFACTURERS' RECORD to the Phoenix mine, in Cabarrus county. Other reliable and interesting data has been gathered since. The property embraces 626 acres, which includes some of the finest farm and wood lands in that section. The vein, which is 2½ feet thick, is a true fissure in diorite, and is remarkable for its uniformity. The geological formation is Laurentian, and is cut by the usual trap dykes. The value of the ore improves as depth is attained, i. e., the average auriferous value of the material is greater at 300 than at 150 feet. The main shaft is 360 feet deep, and is being sunk to a greater depth. The levels in the mine are 100 feet apart, and extend laterally from 300 to 500 feet east and west of the working shaft. The estimated quantity of ore in sight is 10,000 tons; the average value of the ore is \$18 per ton. These are reliable figures, and will bear a calculation. The mine has been active for more than 3 years, and has been remunerative.

The buildings are of a substantial character, and include a breaker and mill house, with room for concentrators; a furnace house covering 4 rotating ore roasters and a chlorinating house with filter and tank room. The machinery is first-class and embraces one 80 and one 35-horse-power engine; one air compressor with Rand drills; a 10-horse chlorinating engine; four steam pumps and four chlorinators.

The work is under the able superintendence of A. Thies, M. E., and is conducted with an average number of hands not extending 40.

CONSTRUCTION DEPARTMENT

WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

ALABAMA.

The West End Rolling Mill Co. will be incorporated at Birmingham, Ala., to build a rolling mill of 150 tons capacity. Going & Trammel can give information.

It is rumored that the Pierce Warrior Coal Co., Warrior Station, Ala., have sold out to a new company who will probably increase the capital stock to \$250,000.

The North Alabama Oil & Asphalt Co., capital stock \$1,200,000, has been organized at Birmingham, Ala., with Charles M. Erwin as president, and W. J. Young, of Decatur, vice-president. The company owns and will at once develop about 2,000 acres of oil and asphalt lands.

The Caldwell Printing Works, Birmingham, Ala., have put in stereotyping machinery.

A new planing mill is not to be erected at Renfro, Ala., as stated last week. D. W. Rogers & Co. are building an addition to their mill.

A saw mill has been erected at Robinson Springs, Ala., by McKithen & Spiers.

The planing mill of C. H. Chandler, Clanton, Ala., is being enlarged.

A St. Louis company are preparing to develop the Arbacochee gold mine at Edwardsville, Ala.

The Selma Land, Improvement & Furnace Co., Selma, Ala., are negotiating for the erection of a charcoal furnace and chemical plant.

The Montgomery Ice Manufacturing Co., Montgomery, Ala., will hold a meeting April 20 to consider increasing their capital stock \$100,000.

The Methodists of Mobile, Ala., will erect a new church. A. C. Danner or W. L. Baker can give particulars.

It is stated that a company has been organized at Selma, Ala., to build a rolling mill and a nail factory.

Davis Bros. will start a brick-yard at Montgomery, Ala. They will erect their machinery at once.

H. O. Nourse, of Chicago, Ill., and W. P. Poe, of Birmingham, Ala., are organizing a company at Birmingham to erect a large eight or ten-story building, to cost about \$400,000.

Anniston, Ala., it is reported, will build a city hall and jail.

A brick-yard has been started at Athens, Ala., by Black Bros.

William Berney, Birmingham, Ala., has contracted to build the hotel at Bessemer, previously reported. It will cost \$25,000.

E. J. Oden, Hartselle, Ala., and others, recently reported as organizing a company to build gas works at Decatur, will also build similar works at Hartselle. They contemplate beginning work shortly.

It is stated that a saw and planing mill will be built at Decatur, Ala., by L. M. Henry, of Trenton, O.

The Catholics of Birmingham, Ala., contemplate building a fine church.

Hudman Bros. & Co. and W. Dozier will erect a 3-story building at Opelika, Ala., to cost about \$17,000. It will be 75x110 feet.

Walter W. Davin, Birmingham, Ala., has purchased the right to manufacture terra cotta lumber by a patent process, and will erect a plant at Bessemer and probably a plant at Sheffield.

A company will be organized at Birmingham, Ala., to start a cigar factory. The capital stock will be \$25,000. B. F. Oldham will be manager.

The Enterprise Rolling Mill Co., capital stock \$100,000, has been incorporated at Birmingham, Ala., by Thomas Jeffers, Oliver Weiser, I. R. Hochstader, C. F. Enslen and B. M. Allen.

Murray & Stevenson, Anniston, Ala., are enlarging their foundry.

The Tuscaloosa Northern Railway Co., previously reported, has been organized at Tuscaloosa, Ala., with H. H. Peck, of Cincinnati, as president; W. C. Jemison, vice-president; S. A. Wood, secretary, and Geo. A. Searcy, treasurer. They are now surveying their road.

John Quinn, Augusta, Ga., has received the contract to build the bloomery at Anniston, Ala., for Morrison Bros. & Co., reported last week.

John C. Webb, Demopolis, Ala., previously reported to erect a cotton compress, has purchased the machinery.

W. M. Carney, William's Station, Ala., will add a planing mill to his saw mill.

Wells & Co. are erecting bottling works at Selma, Ala.

Jenkins & Leslie, Seddon, Ala., have bought machinery to manufacture laths.

Mr. Welbanks will erect the tannery at Collinsville, Ala., previously reported.

C. Y. Bogack has received the contract to erect the State fair buildings at Montgomery, Ala., previously reported.

The Florence Land, Mining & Manufacturing Co., Florence, Ala., are negotiating for the erection of the 3 furnaces referred to last week.

The Oak Bark Extract Co., of West Virginia, have contracted with the Decatur Land, Improvement & Furnace Co. to build large works at Decatur, Ala.

A new Baptist church is to be built at Gadsden, Ala. Mr. Wynne can probably give particulars.

The Louisville & Nashville Railroad Co. will extend their Mineral Railroad, in Alabama, to Huntsville, and are now making surveys.

The Birmingham Cement Manufacturing Co., capital stock \$100,000, has been incorporated at Birmingham, Ala., to manufacture cement from furnace slag by a patent process. The company have rented a building for temporary use, until large works are built. Robert Jemison is president; John C. Brain, vice-president and general manager, and A. K. Shepherd, Jr., secretary and treasurer.

It is reported that a wheel-barrow and tool factory and a refrigerator factory are to be built at Decatur, Ala. The Decatur Land, Improvement & Furnace Co. can give particulars if true.

John R. Robertson, Demopolis, Ala., will try to organize a company to build a large cotton factory.

Several companies are being organized at Huntsville, Ala., to establish factories.

Charles Turner, George C. Kelly and F. Y. Anderson have incorporated at Birmingham, Ala., the Birmingham, Irondale & Oxmoor Railroad Co., capital stock \$100,000, to build a railroad to Irondale, about 6 miles.

John B. Reed is president of the company reported last week as purchasing the lumber business of D. W. Hughes, Birmingham, Ala. Their capital stock is \$100,000. They will enlarge their sash, door and blind factory.

The Montgomery Furnace & Chemical Works, capital stock \$400,000, has been organized at Montgomery, Ala., to build the charcoal furnace and chemical plant previously reported. H. M. Pierce, of Nashville, Tenn., is interested.

It is stated that J. M. Chilton, Opelika, Ala., is forming a company to develop mineral lands.

ARKANSAS.

The St. Louis Water, Light & Power Co., St. Louis, Mo., have received the contract to build water works at Pine Bluff, Ark.

The Bear Mountain Telegraph & Telephone Co. has been chartered at Bear, Ark. with R. M. Luton as president. Will build a line from Hot Springs to Fort Smith, via Bear. The paid-up capital stock is \$50,000.

The J. F. Trumpler Fire-Arm Co. has been chartered at Little Rock, Ark. The capital stock is \$3,000.

Negotiations are being made for the establishment of a sewing machine factory at Little Rock, Ark. Fred. Hanger can probably give information.

The Missouri Pacific Railroad Co. (office, St. Louis, Mo.) will build large machine shops at Little Rock, Ark., to employ about 1,000 hands. Plans are being prepared.

The Augusta & White River Railroad Co., capital stock \$10,000, has been incorporated at Augusta, Ark., to build a railroad 1½ miles long.

The Little Rock Timber Co., capital stock \$10,000, has been incorporated at Little Rock, Ark., by Jacob Niemeyer, George Niemeyer and Thomas J. Darragh. T. J. Darragh is president.

Boston parties are negotiating for about 12,000 acres of land at Mammoth Spring, Ark., with a view to erecting a large cotton factory and flouring mills. They will probably organize with \$250,000 capital.

The Sylph Mining Co., recently organized, have commenced developing gold mines at Booneville, Ark.

Charles H. Rogers and J. W. Barnes, of Kansas City, Mo., will build a hotel at Bear, Ark. They have bought a site 150x180 feet.

FLORIDA.

R. W. Seymour will start a saw mill near Kissimmee, Fla.

D. E. Coohar, McMeekin, Fla., whose saw mill was recently reported as burned, will not rebuild, but has purchased a saw mill 5 miles from Gainesville, and has organized the Gainesville Manufacturing Co., to manufacture sash doors, blinds, &c. The company is erecting a factory at Gainesville.

The Banana & Indian River Inlet Co. has been formed in Florida to build a canal to connect the Atlantic ocean with the Banana and Indian rivers.

James A. Hudson, Lewis Marot, J. H. Foster, R. J. Wright and James Sinclair of Tangerine, Fla., have organized a company to build a canal, 1,800 feet long, from Lake Ola to Lake Carleton. The capital stock will be about \$4,000.

The Central City Ice & Cold Storage Co., Gainesville, Fla., will put in some additional machinery.

The city council of De Land, Fla., are corresponding with parties in regard to the building of water works.

W. H. Hutchinson, Pensacola, Fla., will receive bids until March 30 for the erection of a public building.

It is rumored that a large cigar factory will be built at Tampa, Fla., by Cubans.

GEORGIA.

Churchman, Williams & Co. are adding a planing mill to their saw mill at Eastman, Ga.

C. T. Orr will erect the planing mill at Dalton, Ga., lately reported.

W. P. Bass is organizing a company at Dalton, Ga., to manufacture brooms.

W. Ferguson and J. A. Frambro, Rockmart, Ga., lately reported to erect a planing mill, want to buy a 20 horse-power engine, on sills, double-surface planer, about 20 inches, with matcher about 8 inches, a scroll saw and a resaw.

The name of the company reported last week as to be chartered by L. Lanier, D. Merz and others, of West Point, Ga., and Dave Allen, J. Andrews and others, of Lafayette, Ala., to build a railroad between the two places, is the Chattanooga Valley Railroad Co. The capital stock is \$1,000,000.

J. B. Patton is adding some new machinery to his sash, door and blind factory at Rome, Ga.

M. A. Maher, Atlanta, Ga., has opened and will develop the stone quarry at Hamlet, Ga., previously reported. He will build lime works at Hamlet with a daily capacity of 600 barrels, and will start fire-brick works.

M. A. Maher, Atlanta, Ga., has lately contracted to improve the East Tennessee, Virginia & Georgia Railroad from Rome to Macon. The estimated cost is about \$500,000.

The Enterprise Manufacturing Co., Augusta, Ga., have decided to utilize the surplus power of their cotton mill by putting in 10,000 spindles and 300 looms.

Fallon Bros., Savannah, Ga., have received the contract to build the freight depot at Macon, Ga., for the East Tennessee, Virginia & Georgia Railroad Co., reported last week.

J. H. Almond, Sr., Conyers, Ga., will rebuild his gin reported in this issue as burned.

A brick-yard will be started at Monticello, Ga., by Conner & Broddus.

The Atlanta & Alabama Railway Co., reported last December as to build a railroad from Atlanta, Ga., to Selma, Ala., 175 miles, will survey their road at once and expect to begin building it June 1. Adair Bros., Atlanta, can give information.

A company is being organized at Rome, Ga., to build a 100-ton furnace. The Rome Land Co. can give particulars.

J. F. Wright, Rome, Ga., is putting in two Sword brick machines with a daily capacity of 50,000 bricks.

W. C. Donaldson and J. O. Freeman have erected a grist mill at Clayton, Ga.

The Milledgeville Cotton Compress Co., Milledgeville, Ga., previously reported, will have their compress in operation by September 1.

R. A. Brown has built a saw mill five miles from Newnan, Ga.

J. R. Minehan, Brunswick, Ga., has received the contract to build the street railroad previously reported.

D. G. Palmer, Geneva, O., has purchased 200 acres of mica land at Canton, Ga., and will develop it.

The Rome Land Co., Rome, Ga., have purchased the Rome Street Railway, and will extend it.

Charles F. Durr will sink a shaft to test a silver mine near Rome, Ga.

Lanier Bros., West Point, Ga., have received the machinery for their bottling establishment.

Aaron Haas, J. K. Bruner, R. J. Lowry, C. A. Collier, John Collier and others have incorporated at Atlanta, Ga., the Atlanta Improvement Co., capital stock \$250,000. Its object is to build the Atlanta & Hawkinsville Railroad.

M. H. Warren, C. H. Phinizy, Hugh Dempsey and others are working up a company at Augusta, Ga., to build a \$250,000 hotel.

Athens Building Co., Athens, Ga., Wm. Fleming, secretary, will receive bids for building an opera house and 4 stores until April 3.

The English syndicate have completed the purchase of the gold mines in White county, Ga., and will, it is said, begin to develop the property at once.

Hughes & Law will start a shirt factory at Atlanta, Ga.

KENTUCKY.

A saw and grist mill will be erected at Tollesboro, Ky., by A. B. Grigsby and W. H. Putnam.

Henry Egelhoff, Louisville, Ky., has built a railroad at his brick-yard about 2,000 yards long.

J. G. Busse has added to his brick-yard at Covington, Ky., works for manufacturing tiles and enameled bricks.

Samuel R. Bullock & Co., of New York, have contracted to build 5 miles of street railroad at Paducah, Ky.

Samuel R. Bullock & Co., of New York, have bought a site at Paducah, Ky., and will erect a hotel to cost \$80,000. It is to be completed by January, 1888.

New gas works are being erected at Paducah, Ky., by a stock company of which John Gilbert, of Evansville, Ind., is president.

Water works have been completed at Paducah, Ky., at a cost of \$150,000.

The Baptists will build a new church at Ashland, Ky.

Dorset & Wolfstauge, Covington, Ky., will rebuild their distillery reported in this issue as burned, to cost \$75,000.

Peter Routier, Indianapolis, Ind., has received the contract to erect a round-house and freight houses at Louisville, Ky., for the Jeffersonville, Madison & Indianapolis Railroad Co., (office, Pittsburgh, Pa.) previously reported. The cost will be about \$180,000.

John G. Roach, Uniontown, Ky., will rebuild his distillery reported in this issue as burned, loss \$25,000.

S. T. Berry is building a saw mill at Limestone, Ky.

Mr. Sparks, Nicholasville, Ky., has bought a hemp factory at Lexington, and will manufacture twine extensively.

A canning factory is to be established at Lexington, Ky.

The Ripley Cigar Manufacturing Co., capital stock \$5,000, has been organized at Maysville, Ky. Will at once start a factory to employ about 50 hands. Mr. Chambers can give information.

C. L. Pearce, H. B. Grubbs, W. N. Halderman, D. W. Sanders, C. D. Pearce, M. F. Fletcher and R. W. Meredith have chartered at Louisville, Ky., the Maize Oil Cake Co., with an authorized capital stock of \$5,000,000. Its object is to manufacture food and oil from Indian corn and other grains and fruits.

LOUISIANA.

The Creole Manufacturing Co., capital stock \$40,000, has been chartered at New Orleans, La., with Alfred Henry White as president, and Abraham A. Greenwood, secretary and treasurer. Its object is to manufacture yeast powders, self-raising flour, &c.

A company has been formed to build a creamery at Natchitoches, La.

F. Koester will re-establish a soap factory on Liberty street, New Orleans, La.

A company is being organized to build a cotton compress at Bayou Sara, La.

John A. Morris contemplates erecting a sanatorium at Hammond, La., to cost about \$25,000.

J. H. Laws, Baton Rouge, La., has purchased a five-roller sugar mill.

Whited Bros. will build the woodenware and spoke factory at Shreveport, La., previously reported to be erected.

Smith & Goldsmith, New Orleans, La., whose cotton compress was reported last week as burned, loss \$75,000, will rebuild.

The Standard Charcoal, Iron & Chemical Co., Nashville, Tenn., have licensed a company to build one of their charcoal and chemical plants at New Orleans, La.

Messrs. Moore and McWhirter will organize a company at New Orleans, La., to manufacture gas economizers. Their address is 72 St. Charles street.

Charles C. Carroll, New Orleans, La., has bought a marble quarry near Winfield, and will probably develop it.

MARYLAND.

George H. Mewlin, Ridgely Park, Pa., is negotiating for a site at Elkton, Md., for a hosiery mill.

The Clinton Co-operative Manufacturing & Investment Co., capital stock \$2,500, has been chartered at Baltimore by Joseph Snyder, Francis Cowley and others.

The Bauernschmidt & Marr Brewing Co., capital stock \$100,000, has been incorporated at Baltimore by John Marr, Albert Gottschalk, Lewis Becker, Andrew Roth and Isidor Lowenthal. The company has purchased and will operate the brewery formerly opened by John Marr and Elizabeth Bauernschmidt.

The Brashears Parlor & Sleeping Car Co. has been incorporated at Baltimore with T. D. Singleton as president; George J. Johnson, vice-president; Shipley Brashears, secretary, and George J. Bessler, treasurer. The privileged capital stock is \$2,000,000.

The Easton Electric Light Co., Easton, Md., previously reported, have purchased machinery for their plant. They will use the Westinghouse system.

W. C. Barington will build a canning factory at Wilna, Md.

The contract to fill up Babcock Lake and the grounds around the Washington Monument at Washington, D. C., has been let to Thomas H. Lyons, of Baltimore, at 39 cents per cubic yard. It will require 250,000 cubic yards.

A small distillery has been started at Lineboro, Md., by Adam Rohrback.

A creamery is being erected at Buckeystown, Md., by A. W. Nicodemus.

The National Mechanics Bank will erect a three-story building, 25x62 feet, on Calvert street, to cost about \$20,000. E. F. Baldwin is the architect.

The R. D. Johnson Milling Co., Cumberland, Md., are enlarging and improving their roller flour mill.

It is rumored that the Pennsylvania Steel Co., Steelton, Pa., will build large furnaces or steel works near Baltimore.

The Christian Church, Baltimore, will build a new edifice at the corner of Harlem avenue and Dolphin street.

The Columbia Iron Works & Dry Dock Co., of Baltimore, have received the contract to build 2 steel ferry boats for the Staten Island Rapid Transit Railroad Co., of New York. They are to be 236 feet long.

The capital stock of the company previously reported as being organized at Baltimore to build a large sugar refinery at Curtis Creek will be \$1,250,000, nearly all of which has been subscribed. Messrs. Robert Garrett, William De Ford and William S. Rayner, of Baltimore, are interested.

MISSISSIPPI.

It is stated that negotiations are being made for the erection of a cotton compress at Summit, Miss.

The capital stock of the Columbus Street Railway Co., Columbus, Miss., lately reported as organized with R. W. Banks as president, is \$20,000. Will build their road at once.

The Vicksburg Cotton Seed Co., capital stock \$500,000, has been organized at Vicksburg, Miss., by Mr. Crawford, O. T. Bugg and others. The company have four machines erected for cleaning cotton-seed, and will soon erect four more. Each has a capacity of ten tons. They will erect more machinery this summer; also an oil mill.

A company is forming at Natchez, Miss., to build a hotel to cost about \$75,000.

W. W. Naylor, of Philadelphia, and S. R. Bullock & Co., Inmann & Co., and Patrick J. Kennedy & Co., of New York, have each made bids to build the water works at Natchez, Miss., previously reported. The bid of S. R. Bullock & Co. will probably be accepted.

C. R. Wood, Columbus, Miss., is erecting a planing mill, and will add a machine shop and a grist mill this summer. He wants to purchase brick machinery.

The Melton Hardware Co., capital stock \$500,000, has been chartered at Meridian, Miss., by Robert Coleman, of West Point; J. M. Bockby, Jr., and E. Bockby, of Enterprise, and J. N. Melton, Meridian.

The Natchez Street Railroad Co., Natchez, Miss., will extend their road.

NORTH CAROLINA.

Clarke Whittier, Whittier, N. C., has purchased machinery for a plug tobacco factory.

A. D. Demson, New Berne, N. C., will move his oil mill to another location, and double its capacity. He has added a refinery. He will also enlarge and improve his turpentine distillery.

S. J. Tatum & Co., Jerusalem, N. C., have rebuilt their saw mill, previously reported as burned, and will add other machinery shortly.

The saw mill of Wilson & Robinson, Bandy, N. C., reported last week as destroyed by a flood, will be rebuilt.

It is rumored that Julian S. Carr, Durham, N. C., will build a tobacco factory at Raleigh.

A large hotel is to be built at Raleigh, N. C.

I. N. Biggerstaff, Forest City, N. C., has purchased machinery to erect a saw and corn mill and cotton gin.

The Charlotte Plow & Machine Co., Charlotte, N. C., have purchased a machine shop at Greensboro, and are moving the machinery to Charlotte.

Another stamp mill is to be erected at the Howie gold mine in Union county, N. C.

It is stated that a company is forming to erect an electric light plant at Salisbury, N. C.

A company has been formed to develop magnetic iron ore mines in Ashe county, N. C.

A 40-stamp mill is being erected at the Russell mine in Rowan county, N. C.

R. M. Conch, Keyser, N. C., previously reported as to erect a lath and shingle mill, will also erect a corn mill and a cotton gin, and possibly a saw mill.

The John L. Roper Lumber Co. are erecting a mill in Washington county, N. C.

It is reported that the Atlantic Coast Line, Henry Walters, Wilmington, N. C., general manager, will build a large round-house at Weldon.

SOUTH CAROLINA.

George J. Baldwin, Joseph B. Duckworth, Jacob Raders and Alexander R. Lawton, of Savannah, Ga., reported last week as buying the Hume Fertilizer Works, at Port Royal, S. C., for \$70,000, have chartered as the Baldwin Fertilizer Co., with a paid-in capital stock of \$250,000.

The Huguenot Mills, Greenville, S. C., will put in 20 new looms.

A. S. Emerson will erect a shirt and underwear factory at Charleston, S. C., two stories, 56x160 feet.

A cotton factory is projected at Laurens, S. C.

R. C. Thompson is developing a gold mine at Abbeville, S. C., and will shortly erect machinery.

TENNESSEE.

It is rumored that the barrel factory of Grieff Bros., Cleveland, O., will be moved to Chattanooga, Tenn.

J. R. Norton, of Ironton, O., is president and general manager; J. P. W. Brown, vice-president, and L. R. Eastman, secretary and treasurer, of the Sequatchie Hoe & Tool Co., reported last week as incorporated at South Pittsburgh, Tenn. The capital stock is \$50,000. The company will at once erect works.

The Holston Packing Co., Bristol, Tenn., are making arrangements to start a canning factory. Will be in operation by August 1.

A company has been formed at Maryville, Tenn., to manufacture churns. E. W. Tedford can give information.

The Nashville Iron Co., Nashville, Tenn., will put in their works puddling machinery and 16 furnaces.

Daniel Rudy will be manager of the pork packing establishment reported last week to be erected at Columbia, Tenn. The capital stock of the company will be \$40,000.

The Athens Furniture Works, Athens, Tenn., are negotiating for the sale of their wood-working factory, with a view to erecting a new factory to manufacture furniture.

The mill lately reported as being erected at Nashville, Tenn., by the Timmons Mill Co., is a flour and grist mill. About \$8,000 will be invested.

S. T. Post & Son will, it is rumored, move their wagon factory from Knoxville to Maryville, Tenn.

G. E. Scholze will build a new slaughterhouse at Chattanooga, Tenn.

H. C. Jackson will receive the contract to build a market-house at Chattanooga, Tenn., at \$17,707.70.

The Tennessee Furniture & Chair Co., Union City, Tenn., are moving into their new factory.

Mr. Folk, Brownsville, Tenn., is trying to organize a company at Union City to build gas works.

J. H. Buffum, of Boston, Mass., contemplates erecting a planing mill at Bristol, Tenn., and D. J. Elliott will erect a machine shop at the same place.

J. B. Hoxie and Samuel McKinney, Knoxville, Tenn., previously reported as erecting a 10-ton ice factory, have, with C. Powell, G. M. Harrel, C. E. Luckey and J. H. Scarborough, incorporated the Crystal Ice Co., capital stock \$15,000.

John J. Wolf has erected a saw mill at Rogersville, Tenn.

A \$12,000 building is to be erected at Mossy Creek, Tenn., for the Mossy Creek Female College.

The Powell Land & Kaolin Co., Knoxville, Tenn., previously reported, are having their kaolin tested, and will erect a plant to manufacture it if the results are satisfactory.

J. C. Rodemer, Gallatin, Tenn., has received the contract to build the West Nashville Railway Co's road from Nashville to the new town of West Nashville.

A \$25,000 company has been formed to start a stove foundry at Morristown, Tenn., by C. R. Johnson, of Girard, O., and others.

A. Chance, of Loudon, Tenn., and Messrs. Craig and McMullen, of Knoxville, have purchased 125 acres of marble land and will open quarries.

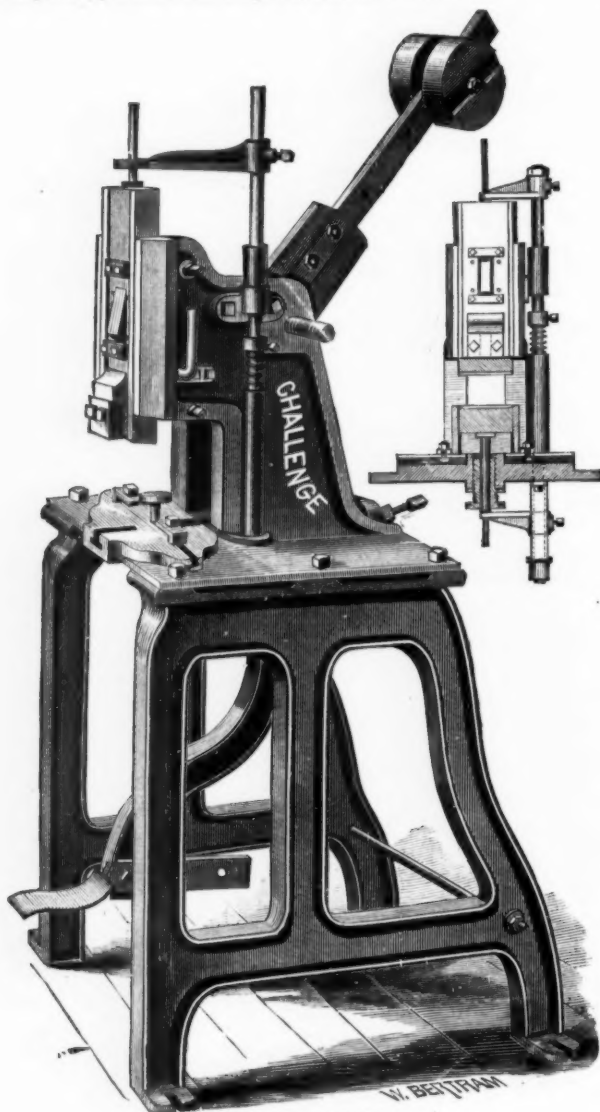
A saw mill has been erected six miles from Brownsville, Tenn., by J. L. & D. N. Richardson.

[CONTINUED ON PAGE 246.]

The Challenge Soap Press and Dies.

In the accompanying illustration is shown an improved Challenge soap press, which is adapted and adjustable to all size cakes from the smallest toilet to the three-pound laundry bar, thus meeting the requirements of small as well as large manufacturers. The press is perfectly fitted in all its parts,

ing for the head of the lifting pin which rests upon it when the bushing is raised above the surface of the bed. This furnishes a firm and solid foundation for the lower die, and as it is capable of the nicest adjustment by the simple turning of the screw, it is obvious that the thickness of the cake may be regulated at the operator's will and different thicknesses of cakes be formed in the same mold.



THE CHALLENGE SOAP PRESS.

special attention having been given to have the slide and lever well balanced, so as to give a light or heavy blow as may be desired. It works easily by its true balance, and swings readily back to its proper position. The lever has steel bearings or wearing surfaces, and the slide is adjustable so as to take up any side wear, thereby saving the molds or dies and reducing expense for repairs. Special attention is called to the device for holding the upper die in the slide, which, instead of the single set screw bearing against the shank (the method usually adopted), consists of a grooved cap held in place by two screws, thus giving a firm and perfect bearing the entire length of the shank and preventing all chance of injury to the dies by the upper die being set out of true or imperfectly fastened. The injury to the shank of punch which the set screw causes is also avoided by a clamping device. For lifting the cake out of the mold, the Challenge is provided with a positive motion which is adjustable to the various thicknesses, so as to lift the cake to the top of the mold, but no higher, and which from the principle of its construction must be absolutely positive at each stroke of the press.

When desired the manufacturers place on the Challenge an attachment which obviates the necessity of inserting blocks, or pieces of leather, beneath the lower die to regulate the thickness of the cake. This attachment is shown in the smaller cut, consisting of an adjustable screw bushing inserted in the perforation of the bed, which forms a bear-

An especially good feature of the Challenge, and one which meets with the approval of manufacturers generally, is the handle which is placed on each side of the frame, allowing the operator to obtain a firm grasp when striking a heavy blow, and providing a rest and support at all times. This machine is strongly and substantially built of the best material throughout, and is, the manufacturers claim, "unequaled for effective and rapid work by any foot press on the market."

The patent self-adjusting soap dies are an innovation in soap dies which manufacturers will generally recognize as fulfilling a much needed want. Soap makers have experienced the annoyance of having their dies ruined by being carelessly set or being operated in a press whose imperfectly fitted bearings give sufficient play to allow the upper die to strike the mold in its downward stroke, thereby dulling and nicking the sharp edges which are essential to the formation of a handsome, cleanly cut cake, and gradually shaving and wearing until all semblance of fit was gone and the dies rendered utterly worthless. Even when the utmost care is exercised in their operation it is a generally admitted fact that no matter how perfect the construction of the dies, the lower die and mold will outlast several upper dies. How to overcome this inequality of wear and its attendant expense has long been a query among practical men, a query which it is believed has at last been solved by these patent self-adjusting dies, the essential features of which will be readily seen by a

glance at the cuts. The box or mold is provided with projecting lugs or shoulders drilled to receive the two gauge or guide pins which project downward from a corresponding shoulder on the upper die. As these steel pins project beyond the lowest point of the upper die and enter the steel lined recesses in the shoulder of the mold, they compel the uniform entrance of the upper die into the mold, and obviate any possible chance of nicking and shaving. Messrs. G. A. Crosby & Co., 259, 261 and 263 Randolph street, Chicago, are the manufacturers of these presses and dies and will give any information desired regarding them.

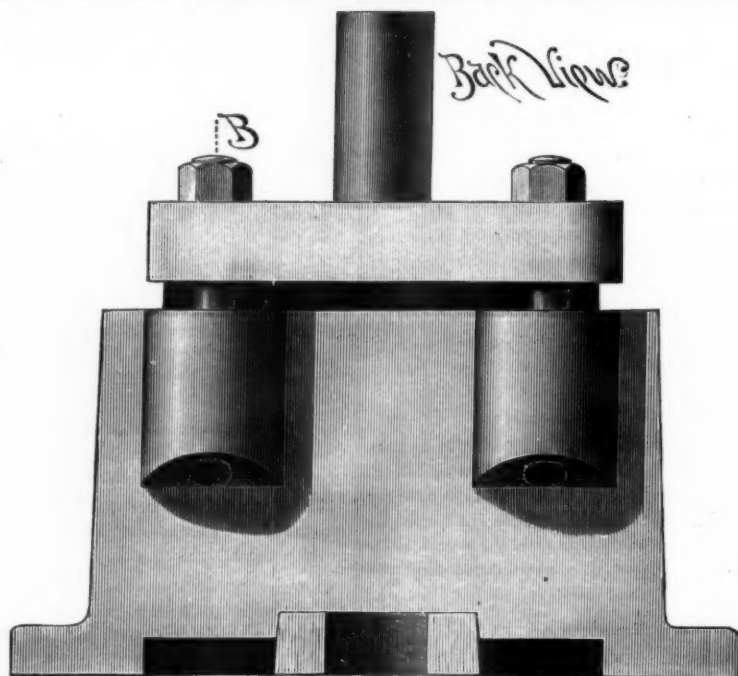
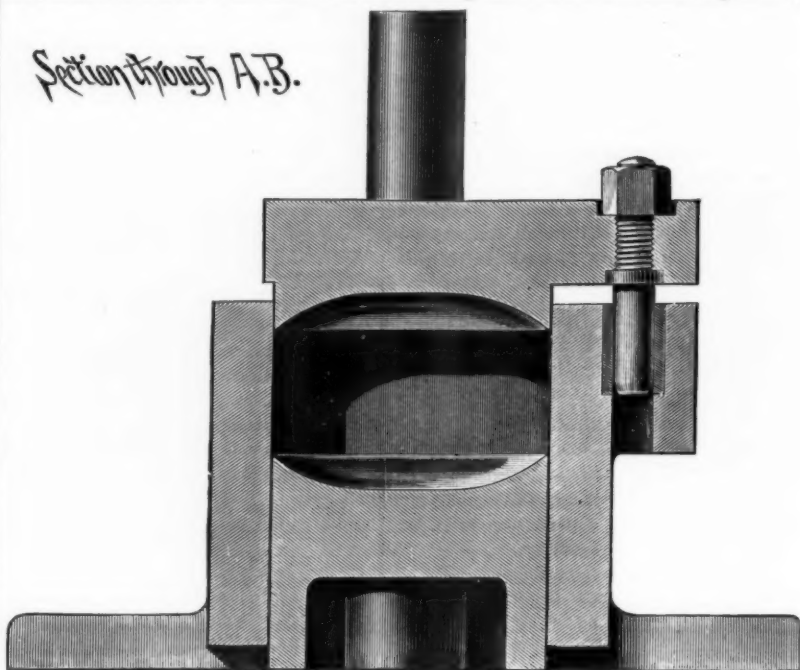
TUSCALOOSA, ALA., March 18, 1887.

Editor Manufacturers' Record:

Our company was incorporated under the laws of the State about 2 months ago. The privileges granted under its charter cover about every conceivable enterprise, such as mining, manufacturing, construction of railroads, dummy lines or other street railways, water works, gas and electric lights, &c. The capital stock of the company is \$350,000, most of which has been subscribed for.

tance of 2 miles, in the course of 2 months. This lake, at the terminus of our dummy line, nature has done all in her power to beautify, and at a very nominal expense we will have a lake, the surface of which will be between 7 and 8 acres, with 5 or 6 natural arms running out from its main trunk, filled with pure spring water; which, by walks, drives and artificial ornaments, we will make very attractive to pleasure seekers. We have already had subscribed \$17,000 to erect a cotton mill, the balance of which stock—\$23,000—we hope in a short time to have taken, when we will promptly build the mill. These are projects that, except the last, are in process of construction, and will be completed as fast as possible. We are prepared and anxious to make special inducements to manufacturing enterprises of all kinds, by furnishing sites at a nominal value, upon lands along the river and bordering the city, which enterprises are exempted from municipal taxes by the city council for 10 years. We have other enterprises which, though they are not now begun, we hope to put on foot very soon; such as connecting the river (the best landing upon which, at Tuscaloosa, this company owns) with our coal fields by a railroad about 1 mile in length, which railroad will run through the lands that we are offering as sites for manufacturing enter-

Section through A.B.



SECTIONAL VIEWS OF PATENT SELF-ADJUSTING SOAP DIES.

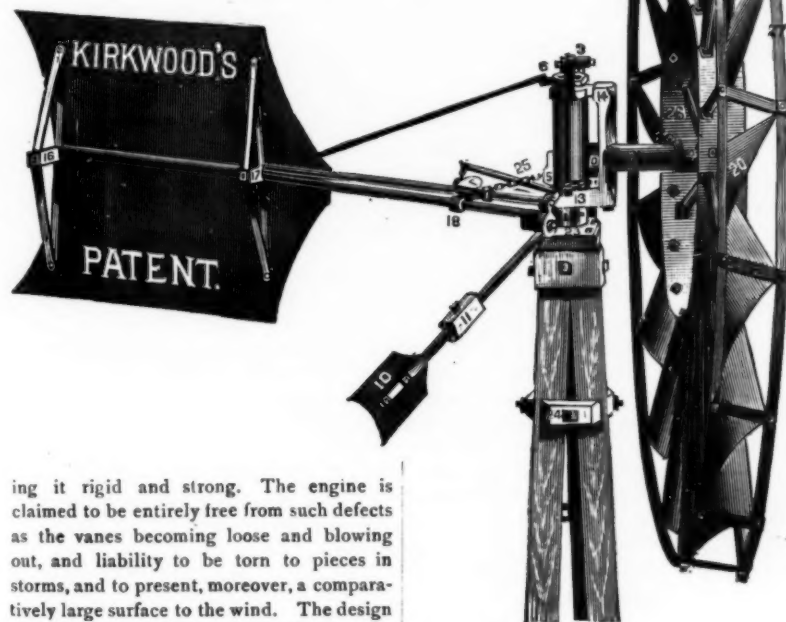
We are digging for coal, and have already sunk a shaft about 70 feet, passing through a surface vein, 16 to 18 inches thick, too small for us to work. We are going down to the celebrated Pratt vein, which geologists assure us is between 400 and 500 feet below the surface. We have already begun work on the dummy line to run through our property, and expect to complete it to the lake, a dis-

prises; to run other dummy lines to develop our property; to erect water works, the site for which we own beyond question being by odds the most elevated one around the town, and the surface of the ground on that site is level with the top of the highest roof in our city, and it lies within 300 yards of the lake, &c.

W. W. HILL, Gen'l Manager,
TUSCALOOSA & CASTLE HILL REAL
ESTATE & MANUFACTURING CO.

The Kirkwood Wind Engine.

The Kirkwood Wind Engine, a cut of which we give to-day, is manufactured by the Progress Engine & Machine Works, of Summerfield, Md. This engine is made entirely of iron and steel. The wheel is composed of a cast-iron hub fitted to main shaft, the hub being flanged on the back and extending back over the bearing. By this arrangement the weight of the wheel is placed near the center of shaft and bearing, preventing, it is claimed, excessive wear on the end of the bearing, making the wearing parts more durable and causing the wheel to run in lighter winds. Into the hub are screwed wrought-iron rods, extending outward to a rim of wrought iron and riveted to it. This rim forms the center of the wheel into which the vanes are secured. The vanes are made of sheet iron, the edges being rolled over steel rods threaded on the ends. The ends of the rods are placed in holes in the rim at the proper angle across the face of it, with nuts on the outside and inside of the ring. The vanes extend outward, with their extreme ends passed through openings in outside bands which encircle the wheel, and are secured in the same manner as in the central rim. Cross pieces are bolted from one band to the other. There are 36 vanes in 10-foot wheels, with 2 rods in each vane, forming 72 stay bolts to bind the wheel together, making it rigid and strong. The engine is claimed to be entirely free from such defects as the vanes becoming loose and blowing out, and liability to be torn to pieces in storms, and to present, moreover, a comparatively large surface to the wind. The design combines a maximum of strength with a minimum weight.



THE KIRKWOOD WIND ENGINE.

The tail vane or rudder is composed of 2 tail bars or tubes of wrought iron, their ends fixed in a casting on a vertical tube, and braced by rods extending from the top of this tube to the center of the tail bars. They are braced together at intervals by castings upon which the vanes are mounted and supported by flat bands and elliptic braces. The edges of the sheet iron vanes are rolled over rods to stiffen them; have the strongest as well as the lightest vane or rudder in use. As regards the governing principle, we would remark that the wheel is mounted on a bracket made to revolve on a vertical tube to which the tail vane is rigidly fixed. On the bracket is a circular flange; to this flange is attached a chain passing from the flange to an eccentric-shaped wheel, pivoted on and at right angles with the casting, to which the tail is fixed. The center of wheel is set $1\frac{1}{2}$ inches to one side of the center of the vertical tube, the wind exerting the greatest pressure on that side forces the wheel around in a storm parallel with the tail vane. This winds the chain on the circular bracket flange, draws on eccentric, and lifts the weight on the lever attached to the eccentric to a horizontal position. The eccentricity of the chain wheel increasing the resisting power of weight causes the wheel to offer greater resistance to the wind the nearer it approaches a parallel line with tail, and lessens the resistance as the wheel

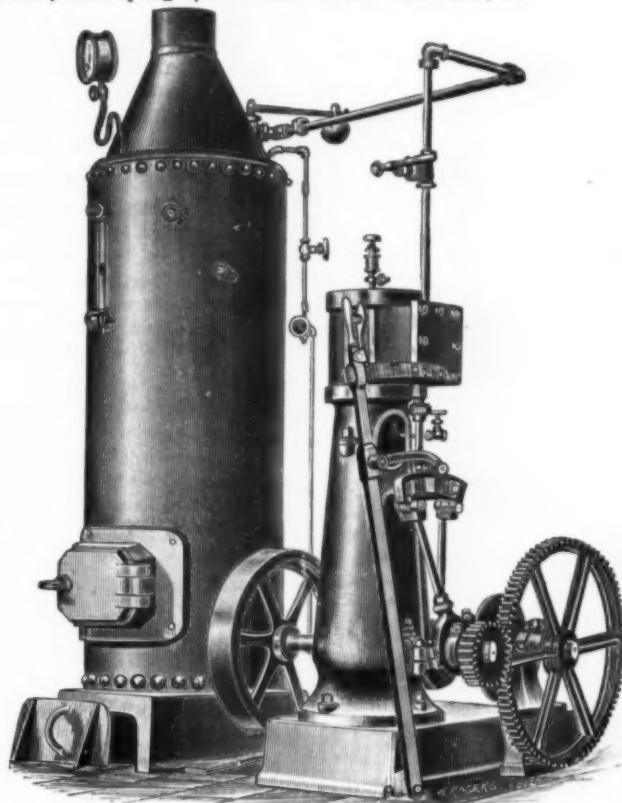
is drawn into the wind at right angles to tail. In this way a simple regulation is obtained, the action being quick and effective, never allowing the wheel to go entirely out of the wind and stop (unless pulled out), but causing it to run in storms as well as light winds with safety.

The weight to which we have referred is a thin flat surface set broad side to the wind at all times, but presenting no surface to the wind when the wheel is running full in the wind. The weight is then low down behind the wheel. When the latter is deflected out of the wind or pulled out to stop it, the weight is raised to a horizontal position on the end of the lever on opposite sides of center of pivot from the wheel, and at right angles with it, balancing the wheel on the tower, and presenting the same resistance to the wind as the edge of wheel. The shaft is of cold-rolled iron, and the bearings are long and recessed in the center to hold oil. The crank and wheel hub are neatly fitted to the shaft and keyed upon it. The connecting-rod is bushed with brass, and can be replaced when worn at little expense; the

These springs are made by coiling one piece of round steel into the shape shown in the cut and can easily be fitted to the seat by the use of only two bolts, while they can be attached to the wagon body without extra hooks, stirrups or spring bars. Being made of one continuous piece of steel, without a hole, joint, weld or rivet, the manufacturers claim that they "excel in strength and are more durable and less liable to get out of repair than any other spring upon the mar-

pipes, ready to run, connected with boilers on one base. As showing the small space occupied by an engine and boiler on one base, it may be said that floor space measurements for a 4 horse-power are 28x44 inches and other sizes proportionate.

The hoister with boiler attached, shown in the illustration, can be used for all kinds of hoisting—such as in mines, loading and unloading ships, and raising materials for erection of warehouses, &c.

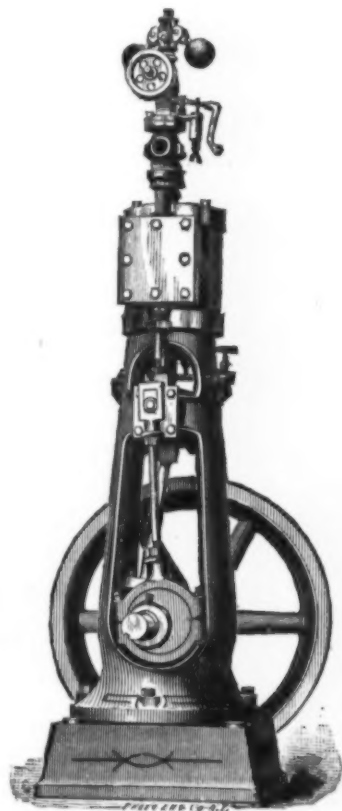


HOISTING ENGINE.

ket to-day." They are made of the best spring steel, tempered in oil and thoroughly tested before leaving the factory. The prices are about the same as the ordinary seat spring, while the cost of adjusting them is very light. The manufacturers will give any further information desired.

Vertical and Hoisting Engines.

We present herewith illustrations of vertical and hoisting engines manufactured by Mr. William C. Codd, of Baltimore. The connecting rod, piston rod, valve, stem-crank pin and cross-head pin are of steel; connecting rod brasses are of gun metal, as are also the wedges of the cross-head; the journals are long and are of large diameter and are furnished with the Babbitt metal. A steam test of every engine is made before it leaves the shop, and the necessary adjustments are carefully made, so that the engine is ready to run as soon as placed in position and given steam. In operation these engines are noiseless, and the manufacturer says that the "large number in use, and the fact that none have given out or caused any trouble, is sufficient guarantee of their durability." The engines are made with either center crank or side crank, as



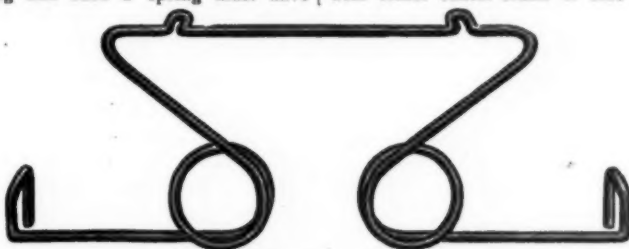
VERTICAL ENGINE.

The manufacturer guarantees "every engine simple in construction, easy in management, economical in fuel." These engines are made in sizes and styles adapted to any kind of work where power is required—such as for butcher machinery, ventilating fans, printing presses, laundries, creameries, corn choppers, machine shops, sewing machines, jewelers, confectioners, &c.

For further particulars, address William C. Codd, 2010 and 2012 Aliceanna street, Baltimore, Md.

A Patent Wagon Seat Spring.

A good wagon seat spring is a very essential thing and such a spring must have



PATENT WAGON SEAT SPRING.

several features, such as lightness, durability, ease of adjustment, strength, &c. All of these it is claimed are found in the patent wagon seat spring shown in the accompanying illustration, which is made by the Vehicle Spring Co., of Chattanooga, Tenn.

preferred. At a slight additional cost these engines can be furnished with link and reversing lever, which makes them readily adaptable to furnishing power for propelling yachts, or any other small vessel. These engines can be furnished "complete" with

(CONTINUED FROM PAGE 243.)

The Chattanooga Land, Coal, Iron & Railway Co. has, it is reported, been organized at Chattanooga, Tenn., to build iron furnaces, &c., with J. W. Adams as president; T. H. Montague, vice-president, and H. Clay Evans, secretary. The capital stock is said to be \$12,000,000.

A. J. King, J. R. Stephens, J. E. Dyer, A. D. Long and others are interested in the knitting factory previously reported to be started at Johnson City, Tenn. The capacity will be 100 dozen pairs hose per day.

A furniture factory is reported to be built at Loudon, Tenn., in the near future.

F. A. Miller is enlarging his tannery at Spring City, Tenn.

Montague & Co. have purchased machinery to double the capacity of their fire-brick works at Chattanooga, Tenn. Will build a three-story addition, 70x80 feet.

R. L. Bright, Chattanooga, Tenn., reported last week as purchasing marble lands and quarries near Kelso, will organize a company to extensively develop the property.

Smith & Sharp, Nashville, Tenn., have received the plans for the \$70,000 stone church to be built by the Episcopalians. They have the contract to erect 2 three-story buildings to cost \$20,000.

The Tulip Street Methodist Church, Nashville, Tenn., will erect a new building to cost about \$30,000. Plans have been prepared by T. L. Disimikes. H. C. Thompson is preparing plans for a \$10,000 Baptist church to be built at the same place.

Mr. De Lery and others are organizing a company at Nashville, Tenn., to manufacture terra-cotta. The capital stock will be \$50,000.

The Chattanooga Gas Light Co., Chattanooga, Tenn., contemplate erecting a new building for their plant. They may add some new machinery.

Miller Bros., Hurricane Springs, Tenn., will rebuild their hotel reported in this issue as burned, loss \$25,000.

H. C. Jordan, Chattanooga, Tenn., has the contract to erect a building to cost about \$15,000.

A horse-shoe factory is to be erected at West Nashville, near Nashville, Tenn. The Nashville Land Improvement Co. can give information.

The name of the stock company reported last week as to be organized at Fayetteville, Tenn., to build a roller flour mill and a cotton factory, will be the Elk River Woolen & Flouring Mill Manufacturing Co. A. J. Thomas is interested.

R. Z. Roberts, Knoxville, Tenn., has lately purchased some marble land, which, it is said, he will develop soon.

A. W. Ward will, it is said, erect a marble mill at Loudon, Tenn.

It is reported that a company is being organized to build a large marble mill at Knoxville, Tenn.

G. W. Bolinger, Jonesboro, Tenn., wants to purchase wood-working machinery.

A natural gas company has been organized at Knoxville, Tenn., with R. Z. Roberts as president; F. J. Leland, vice-president, and C. M. Funck, secretary and treasurer. The company will bore a well at once.

A bill will be introduced in the Tennessee legislature to authorize Gallatin to issue \$40,000 of bonds to build water works.

The Columbia Bridge Co., Dayton, O., have received the contract to build an iron bridge across the Duck river near Centerville, Tenn.

It is reported that Ferdinand Kincaid, New Castle, Pa., has leased and will develop mineral lands at Jamestown, Tenn.

It is stated that the canning factory reported last week to be established at Knoxville, Tenn., will be built by Mr. Ricker, of Woodside, N. Y.

Troutwine & Semones have built a foundry at Union City, Tenn.

TEXAS.

The contract to build the courthouse at Nacogdoches, Texas, previously reported, has been awarded to D. N. Darling, of Palestine, Texas, at \$11,995.

Coal mines will be opened at Malakoff, Texas.

The Sabine River Railway Co., capital stock \$76,000, has been incorporated in Texas by E. S. Hicks, J. W. Rogers, H. Oliver, A. W. Oliver, E. H. Hearne and others. They will build a railroad from a point on the Houston & East Texas Railroad to the Louisiana State line, 26 miles.

The Episcopalians will erect a church at Waxahatchee, Texas.

The Farmers' Alliances lately reported as meeting at Temple, Texas, to consider erecting a cotton factory, have drawn a charter for a company to build a factory to cost about \$100,000, and have elected officers. James M. Smith, secretary, can give information.

The Southern Cotton Oil Co., (office, Philadelphia, Pa.) previously reported, have contracted for press-room machinery for 8 mills, and are now preparing to build their first mill at Houston, Texas. The daily capacity will be 150 tons seed.

An ice factory will, it is said, be built at Cleburne, Texas, soon.

The name of the company previously reported as organized at Coleman, Texas, to prospect for coal, with W. C. Dibrell as president, is the Coleman Prospecting Co. Their capital stock will be increased from \$1,000 to \$3,000.

The Denison Crystal Ice Co., Denison, Texas, are building rooms for cold storage and adding refrigerating apparatus of 3 tons capacity.

Collin county, Texas, will build an iron bridge at Plano. W. D. Pearce can probably give particulars.

The Tyler Lumber Co. will build a planing mill at Tyler, Texas, and have purchased machinery.

Inman & Co., of New York, have received the contract to build the water works at Waco, Texas, previously reported.

The Harrison Coal Prospecting Co. are prospecting for coal at Santa Anna, Texas.

The Pauly Jail Building & Manufacturing Co., St. Louis, Mo., lately reported as receiving the contract to build a large jail at Sherman, Texas, have let the contract for the stone and brick work to J. H. Brown.

An opera house will probably be built at El Paso, Texas.

The Grand Milling & Refining Co. have made a proposition to build large smelter reduction works and a refinery at El Paso, Texas, which will probably be accepted.

The Tyler County Lumber Co. have moved their mill from Colmesneil to Rockland, Texas.

Middlebrook Bros. are building a saw mill and a planing mill at Plank, Texas. The capacity of the planing mill is 40 M feet daily.

M. P. Kelly & Co., of New York, have contracted to build water works at Greenville, Texas, to cost not less than \$70,000.

J. H. Parramore, C. Evans, O. W. Stefens, T. L. Odom, W. J. Hughes and others have incorporated a company to operate the water works at Abilene, Texas. They will make improvements.

The Dallas Consolidated Railway Co., capital stock \$500,000 has been chartered at Dallas, Texas, by J. E. Henderson, J. E. Schneider, T. J. Oliver, J. N. Simpson, J. G. Trezevant, W. H. Flippin and W. H. Gaston.

The machinery has been purchased for the cotton compress lately reported to be erected at Greenville, Texas.

Machinery will be erected to develop a silver and lead mine at Mason, Texas.

A \$25,000 stock company has been organized at Gainesville, Texas, to build a grain elevator, with J. B. Wells, F. M. Renfro, John T. Walker, C. C. Heming, and others, as directors.

San Antonio, Texas, will issue \$50,000 of bonds to build new sewers.

The Pearsall Mill Co., Pearsall, Texas, will rebuild their flour mill lately reported as burned, loss \$15,000. Have ordered machinery.

Joseph Nalle, Austin, Texas, will build a three-story hotel to cost about \$15,000.

An \$8,000 school building will be erected at Calvert, Texas. Daniel Parker can give information.

An electric light plant will, it is said, be erected at Gainesville, Texas.

The Bridgeport Brewing Co., Bridgeport, Conn., will build a large brewery at Houston, Tex. Work will be commenced at once.

Bids for erecting a stone school building at Sweetwater, Texas, will be received until April 1 by Thomas Trammel.

VIRGINIA.

Bills have been introduced in the Virginia legislature to incorporate the Manchester Railway & Improvement Co.; the Roanoke & Northwestern Railroad Co.; the Holly Springs, Church-Hill & Petersburg Railway Co.; the Chesterfield & James River Railroad Co.; the Shenandoah Land & Anthracite Coal Co.; the Mineral Railroad Co., to build a railroad from Strasburg, Va., to Piedmont, W. Va.; the Holy Neck Lumber & Transportation Co.; the Virginia Mining Co.; the New River Coal & Iron Co.; the Clinch Valley Railroad Co.; the Clinch Valley Coal & Iron Co.; the Charlottesville & University Street Railroad Co., with A. D. Payne and others as incorporators; the Fredericksburg & Washington Railroad Co., with E. D. Cole, W. D. White, John R. Taylor, George C. Rounds, A. J. Falls and others as incorporators; the Rich Valley Iron & Gypsum Mining & Manufacturing Co.; the James River Mineral Developing Co.; the Prince William Improvement Co.; the Fredericksburg Street Railway Co.; the Abingdon Coal & Iron Co.; the Norfolk Land & Improvement Co.; the Powhatan, Midlothian & Manchester Railway & Mining Co., with S. G. Wallace, H. H. Vaden, John E. Taylor, B. H. Nash and others as incorporators; the New York & Southern Construction Co., to build railroads, bridges, docks, tunnels, &c., with Charles Watkins, T. C. Williams, E. D. Christian, J. P. Pace, James T. Gray and others as incorporators, and a capital stock of not less than \$100,000 nor more than \$250,000; the Magnetic Mining Co.; the Arcola & Aldie Telephone Co.; the Tazewell Coal & Iron Co.; the North Loudon Telephone Co.; the Richmond & Tidewater Railroad Co.; the West Norfolk & Carolina Railroad Co.; the Suburban & City Railway & Improvement Co.; the Sladeville & Mineral City Telephone Co.; the Nansemond Manufacturing Co.; the Byrd-Creek Iron Co., and a bill to allow Fredericksburg to issue bonds for gas and electric light works.

John F. Chamberlain has selected a site at Fortress Monroe, Va., for his large hotel, previously reported.

The United States Navy Department will build a large dry-dock at Norfolk, Va., to cost \$600,000.

The Virginia Nail & Iron Works Co., Lynchburg, Va., have decided to increase their capital stock from \$95,875 to \$170,875, to enlarge their works and build a 40-ton iron furnace.

An addition is being built to the Morotock Mills (cotton) at Danville, Va. Have purchased machinery.

A bill has been passed in the Virginia legislature to allow Winchester to issue \$20,000 of bonds to build a city hall.

C. G. Holland, Danville, Va.; A. S. Buford, Richmond, and J. D. Blair and W. N. Ruffin have bought the Round Mountain mineral property in Bland county. It embraces about 36,000 acres of lands. The same parties have purchased 12,000 acres of coal lands.

Ash Harman will develop a granite quarry 2½ miles from Culpepper, Va. Will soon begin work.

The name of the company reported last week as organized at Danville, Va., to build a street railroad is the Danville Street Car Co. The capital stock is \$25,000. Thomas B. Fitzgerald is president. The contract to build the road has been let.

The Roanoke Manufacturing Co. has been organized at Roanoke, Va., to sell lumber, coal, &c., and manufacture meal, flour, lime, plaster, &c., with P. H. Rorer as president; G. C. Payne, secretary and treasurer, and S. H. Kefauver, superintendent. The capital stock is to be not less than \$5,000 nor more than \$50,000.

The Wythe Speedwell Iron, Mining & Manufacturing Co., Speedwell, Va., reported last week as repairing their Speedwell furnace, will put it in operation April 1. They are preparing to build a 50-barrel roller flour mill.

B. C. Rawlings, W. T. Stuart, J. E. A. Gibbs, D. H. Rosen and others have formed a stock company at Raphine, Va., to erect a creamery.

It is reported that the money to build a paper mill at Lynchburg, Va., has been subscribed.

Jacob Bear will develop a manganese mine at Greenville, Va.

James Hare is erecting five buildings at Manchester, Va., to cost \$10,000 each.

Marks & Laird will develop an iron ore mine at Laird, Va.

The Riverside Cotton Mills, Danville, Va., have purchased the Yarbrough water-power in North Danville, and will build a three-story weaving mill, 75x220 feet. When it is completed they will fill up their present mill with carding and spinning machinery. Work will begin April 14.

The Tredegar Co., Richmond, Va., will add a 10-inch rolling mill and other new machinery to their plant.

A stock company has been formed at Portsmouth, Va., to erect an electric light plant.

A dispatch from Philadelphia states that capitalists of that city have made arrangements to build a 150-ton iron furnace at some point in Virginia on the Cripple Creek extension of the Norfolk & Western R. R.

The Southwest Virginia Improvement Co., Pocohontas, Va., will put new ventilating machinery in their mines.

John J. Wolfe, Rogersville, Tenn., has erected a saw mill in Scott county, Va., five miles from Estellville.

WEST VIRGINIA.

Horace T. Page, Placerville, Cal.; John D. C. Atkins, Paris, Tenn.; W. C. Whitborne, Columbia, Tenn.; and Richard W. Townsend and George C. Hazelton have incorporated in West Virginia, the Nevada Gold & Mining Co., of Nevada, Cal. The principal office is to be at Washington, D. C. The capital stock is not to exceed \$500,000.

L. J. Ashworth has started the broom factory at Winfield, W. Va., reported last week.

Albert E. Bruce, Gideon Migs, Perry G. Marshall, Rufus A. Cassell and Frank N. Wedge, of Zanesville, O., have incorporated in West Virginia, the Virginia, Parkersburg & Ohio Railway Co., to build a railroad from Parkersburg to the Newport News & Mississippi Valley Railroad. The capital stock is \$50,000.

J. W. Vickers, C. C. Waters, F. S. Thomas, N. S. Burlew and H. D. Shrewsbury have chartered at Charleston, W. Va., the Vickers Wagon Works Co., capital stock \$1,225, to make and repair wagons, buggies, &c.

The Parkersburg Electric Light & Power Co., Parkersburg, W. Va., recently reported as increasing their capital stock, have purchased a site, 60x170 feet, and machinery for their plant. They have adopted the Westinghouse system.

BURNED.

The gins of J. H. Almond, Sr., Conyers, Ga., S. E. Babers, and E. E. Row, Fort Adams, Miss.; Robert Campbell, Sumpter, Ala.; and L. D. Armstrong, Calhoun, Ga., have been burned.

The saw and grist mill of Stanley Moore, Pleasant Valley (P. O. Mt. Vernon), Ky.

The factory of the Piedmont Furniture Manufacturing Co., Lynchburg, Va.; loss about \$8,000.

The rice mill of W. B. Bischoff & Co., near Jacksonboro, S. C.; loss \$10,000.

The large distillery of Dorset & Wolfstange, Covington, Ky.; loss \$60,000. Will be rebuilt.

George W. Robinson's large lumber mill near Pensacola, Fla.; loss \$75,000.

The Atlanta Cotton Seed Oil Mills, Atlanta, Ga., damaged by a boiler explosion.

The carriage factory of B. F. Taylor, Oxford, N. C.; loss \$1,000.

Miller Bros' hotel, at Hurricane Springs, Tenn.; loss \$25,000. Will be rebuilt at once.

The saw mill of Wm. P. Taylor & Bro., Winston, N. C.; loss \$15,000.

The grist mill and gin of W. L. Cruce, near Newnan, Ga.; loss \$1,000.

The mills of the Nona Mills Co., Nona, Texas.

The mill of A. C. Sloan, McDonough, Ga.

The sumac and bone mill of the Lynchburg Manufacturing Co., Lynchburg, Va.; damaged about \$1,000 by fire.

The large ginney of William Lawtey, Fernandina, Fla.; loss on machinery \$6,000.

The saw mill of Buddington & Wilson, Green Cove Springs, Fla.; loss \$15,000.

To Develop Marble Quarries.

CHATTANOOGA, TENN., March 15, 1887.

Editor Manufacturers' Record:

Several parties and myself purchased some very valuable marble lands and quarries near Fayetteville a few days ago, and we intend to take immediate steps for their development on a large scale. The marble has been carefully examined by some fine experts and pronounced of the very highest quality. The quantity is practically inexhaustible, and the property is situated immediately on a railroad (near St. Louis), so that it can be developed and the products handled very readily and with comparatively little cost. In fact, the conditions are such that the owners feel that they shall be able to overcome all competition in that line. We have almost all the varieties and colors of marble found in this State and some fancy colors not heretofore discovered in this country. A company will be organized to develop the property, when stock will be offered to local and Eastern capitalists.

R. L. BRIGHT.

DANVILLE, VA., March 21, 1887.

Editor Manufacturers' Record:

We are at present adding small addition to our mill, and have the machinery now ordered, to put in same when complete. We now have, or will have when our new looms arrive, 314 looms and 7,500 spindles, all running on colored work, check plaids and chevrons.

F. X. BURTON, Secy.

HELENA, ARK., March 16, 1887.

Editor Manufacturers' Record:

On 8th of March, 1887, John I. Moore, D. T. Hargroves, secretary; B. A. Dunlap, John Thompson, E. C. Horner, S. H. Horner, treasurer, and Greenfield Quarles, president, organized the Citizens' Street Railway Co. The capital stock is \$30,000. A. C.

Machinery Wanted.

JONESBORO, TENN., March 19, 1887.

Editor Manufacturers' Record:

I will want lathes, planer, pulley, shafting and wood-working machinery.

G. W. BOLINGER.

To Build a Weaving Mill.

Editor Manufacturers' Record:

The Riverside Cotton Mills, Danville, Va., have purchased in North Danville what is known as the Yarbrough water power and will build a mill 75x220 feet, 3 stories high. This company have now in operation 260 looms. As soon as mill No. 2 is completed it will be filled with weaving machinery, and No. 1 mill filled up with carding and spinning. Work on the foundation commenced the 14th. These mills will be under the supervision of Mr. S. I. Roberts, probably one of the most successful manufacturers of colored goods in the South.

L. C. LEVY.

Will Rebuild Cotton Compress.

NEW ORLEANS, LA., March 18, 1887.

Editor Manufacturers' Record:

It is our intention to rebuild our cotton compress.

SMITH & GOLDSMITH.

Brick Machinery Wanted.

COLUMBUS, MISS., March 18, 1887.

Editor Manufacturers' Record:

I want to purchase brick machinery. I am putting up a planing mill. Will have it in operation by the 1st of April, and expect to add a machine shop and grist mill this summer.

C. R. WOOD.

Water Works Contemplated.

GALLATIN, TENN., March 21, 1887.

Editor Manufacturers' Record:

The town of Gallatin contemplates erecting water works, and to this end have applied to the legislature (now in session) for authority to issue \$40,000 of bonds for the purpose of erecting and equipping water works for the town. A company for boring for natural gas is being organized here now.

GEO. R. DISMUKES.

A Canning Factory.

JUDSONIA, ARK., March 17, 1887.

Editor Manufacturers' Record:

A canning factory building was put up here in 1882 and run very successfully for two years by a private individual, but since then it has been idle. We have, however, organized the Judsonia Canning & Evaporating Co. among our merchants and citizens with the small capital of \$2,000, which will run the factory to its full capacity for this year, and we are planning to put up about 100,000 cans of fruits and vegetables. This is just a trial trip and if everything works favorably we will increase our stock another season to \$15,000.

B. W. BRIGGS, Secty.

To Prospect for Coal.

COLEMAN, TEXAS, March 13, 1887.

Editor Manufacturers' Record:

We have organized a company to prospect for coal, called the Coleman Coal Prospect Co., capital \$1,000, but at our next meeting will endeavor to increase the stock to \$3,000, in order to get first-class diamond drill. Coal cropping abundantly throughout our county, and there is no doubt but that good coal exists here at a little depth. Our streams are full of coal washings.

E. L. BACON.

Additional Machinery.

AUGUSTA, GA., March 19, 1887.

Editor Manufacturers' Record:

Our company have decided to utilize the surplus power in their mill by the addition of 10,000 spindles and 300 looms. Just when the work will begin is not yet determined.

ENTERPRISE MFG. CO.,

J. P. VERDERY, Pres.

DENISON, TEX., March 18, 1887.

Editor Manufacturers' Record:

We are adding refrigerating apparatus of 3 tons capacity, and building rooms for cold storage, in addition to our former capacity.

DENISON CRYSTAL ICE CO.

To Build Gas Works.

HARTSELLE, ALA., March 17, 1887.

Editor Manufacturers' Record:

Myself and others have charters for gas works in Decatur and Hartselle, Ala., and contemplate beginning the work in a short time.

E. J. ODEN.

Erecting an Ice Factory.

BURNET, TEXAS, March 14, 1887.

Editor Manufacturers' Record:

Messrs. Geo. Christian, T. E. Hammond, A. R. Johnson and others have machinery for ice factory on the ground, and will begin operations soon.

A. R. JOHNSON.

The Baltimore Sugar Refinery.

BALTIMORE & OHIO RAILROAD COMPANY.

OFFICE OF THE PRESIDENT.

BALTIMORE, MD., March 19, 1887.

Editor Manufacturers' Record:

The Baltimore & Ohio Railroad is not going to build a sugar refinery at Curtis Creek, as reported, but parties friendly to that interest will build one at Curtis Bay shortly, in all probability.

ROBERT GARRETT, President.

RAPHINE, ROCKBRIDGE CO., VA., }
March 21, 1887. }

Editor Manufacturers' Record:

A creamery is about to be erected at Raphine, Rockbridge county, Va., by a joint stock company composed of the wide-awake merchants of the place and the enterprising farmers of the vicinity. A sufficient amount has been raised, and the management is in the hands of a committee of five, composed of Capt. B. C. Rawlings, Jno. T. Stuart, J. E. A. Gibbs, D. H. Rosen and B. B. Buchanan. The committee hope to have every thing in running order by June 1st.

JOHN T. STUART.

DORCVILLE, LA., March 21, 1887.

Editor Manufacturers' Record:

We have built a very good saw mill and shingle mill on our plantation. We make cypress shingles 16 inches long; capacity 125,000 per day.

THOMPSON & COMPTON.

Erecting a Tannery.

CANTON, GA., March 14, 1887.

Editor Manufacturers' Record:

We are now erecting a tannery, under the firm name of Avery & Jarvis, and we want to be in operation by May, 1887. Will run by water and steam power under most improved methods.

J. W. JARVIS.

LOUISVILLE, KY., March 17, 1887.

Editor Manufacturers' Record:

I expect to place one still next week and commence distilling tar soon at Chattanooga, Tenn.

W. H. ADAMS.

Will Build a 100-Ton Furnace.

TUSCALOOSA, ALA., March 13, 1887.

Editor Manufacturers' Record:

We have organized a company to build a 100-ton furnace here at once, under the style of the Friedman Furnace Co.

B. FRIEDMAN.

Doubling Capacity.

CHATTANOOGA, TENN., March 14, 1887.

Editor Manufacturers' Record:

We have put up grinding works for preparing the Chattanooga china clay for market. In addition we have purchased machinery and will double the capacity of our fire-brick works. Have lumber on the ground for our addition, 70x80 feet, 3 stories high.

MONTAGUE & CO.

Will Erect a Machine Shop.

EDINBURG, IND., March 21, 1887.

Editor Manufacturers' Record:

I am intending to locate at Bristol, Tenn., at an early date, and erect a machine shop known as a general repair shop. J. Buffum & Co., of Boston, Mass., expect to erect a large planing mill at an early date also.

D. J. ELLIOTT.

Marble Quarries to be Developed.

KELSO, TENN., March 18, 1887.

Editor Manufacturers' Record:

The marble quarries will be opened by Bryson, Francis & Co., of Fayetteville.

A. D. KELSO.

Erecting Wood-Working Factory.

MCMEKIN, FLA., March 12, 1887.

Editor Manufacturers' Record:

I have organized the Gainesville Manufacturing Co., and have bought a saw mill five miles west of Gainesville. The new company are putting up a new factory in Gainesville (where they have a lumber yard) for the manufacture of all kinds of dressed lumber and sashes, doors and blinds, &c. The new structure will be ready to run by the first of May.

D. E. COOPER.

Erecting Electric Light Plant.

PARKERSBURG, W. VA., March 20, 1887.

Editor Manufacturers' Record:

This company has purchased a site for its plant—lot 60x170 feet. Has closed contract with Westinghouse, Church, Kerr & Co. for 2 100-horse-power boilers and 2 60-horse-power engines. Has purchased from the Westinghouse Electric Co. two 500-light dynamos. Has made contract with Blaxter & Spicer, of Pittsburgh, for pole line and interior wiring, and is now actively pushing construction.

PARKERSBURG ELEC. LIGHT & POWER CO.
E. H. WELLS, Sec'y.

Will Double Capacity.

NEW BERNE, N. C., March 19, 1887.

Editor Manufacturers' Record:

I shall move my oil mill to new quarters, 90x40 feet, 3 stories high, and double my capacity.

A. R. DENNISON.

Contracted for Machinery.

EASTON, MD., March 19, 1887.

Editor Manufacturers' Record:

We have contracted for our entire plants, and expect to be in operation by June 1st.

EASTON ELECTRIC LIGHT CO.,
P. S. REED, President.

ROME, GA., March 18, 1887.

Editor Manufacturers' Record:

Myself and associates have purchased 240 acres land, embracing among other things a large (in fact an inexhaustible) quarry of the finest marble that I have ever seen. The variety is a black and white variegated, and more nearly resembles the Egyptian marble than anything heretofore found. We sent a block (from too near the surface, however,) to Messrs. W. H. Evans & Sons' marble mills in Knoxville, and had it cut into slabs, paper weights, &c. for specimens for exhibition. While in Knoxville a few days since I called at the mill, and was told by the gentleman in charge that it was the handsomest and most valuable variety of marble that he had seen in the United States. Our company is shortly to be organized, but we have not yet determined upon our course for the future—whether to sell or operate, or lease. Our city is on a regular boom. A large rolling mill, a 100-ton furnace, a wagon factory, a soap factory, a woodenware factory, 3 new railroads, and a big marble quarry are some of the certainties of the present, and we are looking for more developments in the near future. The finest brown hematite (limonite) ores in America are found all around this city, assaying from 54 to 62 per cent. of metallic iron, low in phosphorus, and in limitless quantities. The Rome & Decatur Railroad, now building, will develop coal within 35 miles of this place. We can make iron as cheap as Birmingham or anywhere else.

H. M. SMITH.

Will Build Artificial Stone Works.

MONTGOMERY, ALA., March 16, 1887.

Editor Manufacturers' Record:

We have organized the Alabama Artificial Paving & Building Stone Co., with headquarters at Birmingham. Subscribed capital \$25,000; authorized capital \$100,000. Will put up works at once, and have a \$2,000 contract for city to commence with.

B. H. RICHARDSON.

PADUCAH, KY., March 16, 1887.

Editor Manufacturers' Record:

Our city is on a little boom at present. A street railroad is a certainty; will be built in less than 90 days. Samuel R. Bullock & Co., of New York, have the contract. There will be five miles of track. Will use the flange iron rail of best quality. The cars will be first-class and latest style, and will cost \$40,000, all told. Samuel R. Bullock & Co., of New York, bought on the 1st of this month a lot on corner of Broadway and Fifth streets for the purpose of building a first-class hotel. Plans and specifications all ready, and work will commence before April the first. Building will cost \$80,000 and the lot \$10,000. Oscar S. Teale, of New York city, is the architect, and George G. Davis, of this city, is the superintendent of the building. I will be proprietor of the hotel when completed, which will be by the first of January, 1888. We have a new set of gas works all completed but the holder, which will be done in less than 4 months, at a cost of \$100,000; owned by a stock company. John Gilbert, of Evansville, Ind., is president, and the directors are John Gilbert, R. K. Dunkerson, F. J. Reitz, J. Baxter, L. Lonthall, of Evansville, and J. C. Cobb and Chas. Reed, of Paducah. We have just finished the finest system of water works in the country for a place of our size (15,000), at a cost of \$150,000. We have a pressure sufficient to throw a stream 140 feet any part of the city.

CHAS. REED.

ASHVILLE, ST. CLAIR COUNTY, ALA., }
March 17, 1887. }*Editor Manufacturers' Record:*

The Cornelia Land & Improvement Co. is composed of the following gentlemen: W. R. Blanchard, J. E. Blanchard, P. H. Beurus, N. N. Curtis, R. M. Mulford, J. H. Hamilton, of Columbus, Ga., and F. M. Thomson, of Cornelia, Ala. This company has been operating for weeks in its investments, and is still going ahead. Its declaration of incorporation was filed last week.

One of the surveyors on the Selma road to Gadsden was here this morning. He reported the surveyors six miles north of Branchville, this county, coming this way. He is here looking out the route of surveys in advance.

GEO. R. CATHER.

Will Build at Once.

COLUMBUS, MISS., March 12, 1887.

Editor Manufacturers' Record:

The charter of the City Railroad of Columbus fixes its capital stock at \$20,000. It is all taken. At a meeting of the stockholders some days ago Messrs. E. T. Sykes, G. W. Cox and R. W. Banks were elected directors, the first named being made secretary and treasurer, and the last named president. It is our purpose to build at once.

R. W. BANKS.

BALTIMORE, MD., March 16, 1887.

Editor Manufacturers' Record:

We intend slaughtering, wool pulling and making fertilizers at our new place when completed, which will be some time this year. SHEEP BUTCHERS' & WOOL PULLING ASSOCIATION, No. 2.

Erecting Lumber and Shingle Mill.

TILLAR, ARK., March 14, 1887.

Editor Manufacturers' Record:

I am building a lumber and shingle mill. Will start operations about the first of April.

T. O. WILSON.

Will Build New Works.

CHATTANOOGA, TENN., March 14, 1887.

Editor Manufacturers' Record:

The Brush Electric Light Co., of Chattanooga, Tenn., have bought a lot near East Tennessee, Virginia & Georgia Railroad in the city and will soon erect a first-class station, putting in two Ball engines of 80 horsepower each. Have bought twenty new lamps, and propose to push the electric light business to its fullest extent.

S. C. DODGE, Supt.

Will Erect a Tobacco Factory.

CONNELLY SPRINGS, N. C., Mar. 14, 1887.

Editor Manufacturers' Record:

We intend putting up a tobacco factory, with \$2,000 capital to start. If the business justifies will increase the capital stock. The outlook is good, and we hope to succeed.

MCENTIRE, WARLICK & CO.

New Ice Factories in the South.

CINCINNATI, O., March 16, 1887.

Editor Manufacturers' Record:

We are to erect three ice machines in Alabama; one for Sheffield, another for Decatur, another for Gadsden. We are also erecting ice machines, a second one to the Lookout Ice Co., of Chattanooga, Tenn.; another for Denton, Texas; another for Asheville, N. C.; another for Biloxi, Miss.; another for Wichita, Kansas; also a refrigerator for Hudipol & Kotte, brewers, of this city; and another for the Toledo Brewing Co., of Toledo, O. Our works are running to their full capacity. The Blymyer Manufacturing Co., of this city, have just sold a large five rolls sugar mill to the J. H. Laws Plantation, of Baton Rouge, La.

CINCINNATI ICE MACHINE CO.

To Manufacture Churns.

MARYVILLE, TENN., March 15, 1887.

Editor Manufacturers' Record:

A company has been formed at this place to manufacture patent churns. Mr. E. W. Tedford can give full information.

J. K. WILSON.

Pork Packing Establishment to be Erected

COLUMBIA, TENN., March 15, 1887.

Editor Manufacturers' Record:

The establishment of the pork packing house here is a settled fact. The stock is all taken to amount of \$40,000. Officers not elected yet. Daniel Rudy will be the manager. No better place south of the Ohio than Columbia, as thousands of hogs are shipped North from there every year and sent South as cured bacon.

J. T. C.

New Machinery.

NASHVILLE, TENN., March 15, 1887.

Editor Manufacturers' Record:

We will put in puddling machinery and sixteen furnaces. Will have our bar mill in operation within a week.

NASHVILLE IRON CO.

FRANK M. MORROW, Sec. and Treas.

A Large Contract.

BALTIMORE, MD., March 18, 1887.

Editor Manufacturers' Record:

I have received the contract for filling in around the monument at Washington, D. C., 200,000 yards, at 39 cents per cubic yard.

THOS. H. LYONS.

IRON AND COPPER.**FOR SALE.**

Two valuable tracts of land near Norwood, on the Richmond & Alleghany Railroad, in Nelson county, Virginia. One tract of 383 3/4 acres lies in the copper belt. The land is good, well watered and well wooded. It is about one mile from Norwood Depot, R. & A. R. R. Indications of copper are very promising at several points on this tract, and from one of these veins about 100 tons yellow sulphuret of copper were taken in 1869-70, and sold to the smelting works near Baltimore. The other tract of 355 1/2 acres is about half a mile from the R. & A. R. R., on both sides of the Buffalo ridge, showing good indications of copper on the north side, and an abundance of brown hematite iron ore on the surface along the south base of the ridge, near the railroad. Will be sold at a great sacrifice. I will be glad to answer all enquiries.

ALEXANDER BROWN.

Norwood P. O. Nelson county, Va.

Land Given Away

1 1/2 Miles West of

ANNISTON, ALA.

On Georgia Pacific and Anniston & Atlantic Railroads. Will give 4 acres to any plant requiring the employment of 75 to 100 hands.

John M. Caldwell, Anniston, Ala.

DRAPER-RIDDLE LAND CO.

Anniston, Ala.

BUY AND SELL LAND

On most reasonable terms.

Any information concerning Anniston will be cheerfully given.

Stocks and Bonds Bought and Sold on Commission.

COMMISSIONER'S SALE

OF

Valuable Mineral Property**INCLUDING A RAILROAD.**

Pursuant to a decree of the Circuit Court of Botetourt county, Virginia, entered at the October term, 1886, in the chancery causes of Armentrout and wife vs. M. W. Poague, et. al., and C. R. Mason's Administrator vs. J. F. Hughes, et. al., and Watkins, Cottrell & Co. vs. R. L. Goddard, et. al., the undersigned who were appointed for the purpose will on FRIDAY, APRIL 1st, 1887, at Gala Water Station, on the Richmond & Alleghany Railroad, Botetourt county, Virginia, offer for sale at public auction, to the highest bidder, that VALUABLE IRON ORE PROPERTY known as "BIG HILL," including the branch railroad, franchises and rights of way leading from said mines to and intersecting the Richmond & Alleghany Railroad at Gala Water Station.

The "Big Hill" Iron Property is considered one of the finest in this section of Virginia. It has been well developed, and the iron ore is found in inexhaustible quantities and of finest quality. There is running water on the property ample to wash the ore and the ore now being mined finds ready sale by reason of its superior quality.

The improvements consist of three dwelling houses, a number of shanties for hands, wagon maker's shop and other out-buildings. The title to the property is clear.

Mr. R. H. Teaford, who resides on the property, will show expectant purchasers the premises; and for any further information, inquiries may be directed to Maj. Thos. C. Elder, Staunton, Va.; to F. T. Glasgow, Lexington, Va.; or to Capt. J. H. H. Figgat or T. H. Allen, Fincastle, Virginia.

Terms of Sale.—Cash in hand sufficient to pay the costs and expenses of sale, and the costs of the two suits of C. R. Mason's Administrator vs. Hughes, et. al., and of Watkins, Cottrell & Co. vs. R. L. Goddard, et. al., and the balance in three equal instalments, at one, two and three years respectively from the day of sale, with interest from that day; for which deferred instalments the purchaser shall be required to execute bonds with approved personal security, with waiver of homestead, and the title to be retained as ultimate security.

Thos. C. Elder,
Thurston H. Allen,
J. H. H. Figgat,
Frank T. Glasgow,
Special Comm'rs.

ROBT. K. THOMPSON,
Auctioneer.

IN THE CLERK'S OFFICE OF BOTETOURT

CIRCUIT COURT.

Armentrout and wife.

Versus

M. W. Poague and al.

C. R. Mason's Administrator.

Versus

J. F. Hughes and al.

Watkins, Cottrell & Co.

Versus

R. L. Goddard.

In Chancery.

The bond of \$20,000 required of the Special Commissioners in the three above consolidated chancery causes, has been given by J. H. H. Figgat one of them.

Given under my hand this 1st March, 1887.

TURNER McDOWELL, D. C.

FORT SCOTT, KANSAS.

Attention of Capitalists and Manufacturers is called to the numerous advantages existing at Fort Scott, Kansas, which will soon make this city one of the most important manufacturing and commercial points in the West, and enable it to maintain its present supremacy over all other cities in this State. The natural facilities are unequalled. Coal of the best quality is sold at \$1.50 to 2.00 per ton; slack, 50 cents to \$1 per ton, delivered. Abundance of stone and brick, best quality. Natural gas is fully developed, and used for all purposes. Facilities for transportation and distribution are unequalled, being already the junction of five trunk railways. Direct communication with lumber regions of Mo. and Ark. Correspondence solicited.

SECRETARY BOARD OF TRADE.

HARD-WOOD TIMBER LANDS

—AND—

WATER POWER FOR COTTON OR PAPER MILL.

We have for sale several large and very valuable tracts of Hard-wood Timber Lands, situated on railroad convenient to Danville, Va., suitable for handle, spoke, wheel, plow, carriage and wagon timber. Also good sites for the location of wool-working and other plants at Danville, Va. We also have for sale an exceedingly valuable one hundred horse water-power in the corporation of Danville, Va., specially adapted for Cotton or Paper Mills. Correspondence solicited.

RUFFIN & HAIRSTON, Real Estate Agents, DANVILLE, VA.

O. H. PARKER & CO.

Anniston, Ala.

BUY AND SELL

Real Estate, Stocks and Bonds**ON COMMISSION.**

Correspondence solicited. Refer to First National Bank of Anniston. Advantageous Manufacturing Sites For Sale.

B. K. COLLIER & CO.**Investment Agents,**HEAD OFFICE:
MONTGOMERY, ALA.**BRANCH OFFICES:**Birmingham, Ala., Decatur, Ala.,
Chattanooga, Tenn.**COAL, IRON, PINE and FARMING****Lands Bought and Sold.**

MORTGAGES NEGOTIATED on Farm and City Property. Refer to THE CORBIN BANKING CO., New York City. Address all letters to Head Office.

D. W. K. PEACOCK,
Real Estate Agent,

CARTERSVILLE, GA.

Minerals a Specialty.

Refers to THE HOWARD BANK, Cartersville, Ga.
J. W. RANKIN, Atlanta, Ga.

IRON ORES. LIME. MARBLE.
COAL. CEMENT. LUMBER.

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J. W. SWEET, JR., 35 N. Seventh St.

WM. E. TANNER,

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Is prepared to furnish promptly

LIGHT LOCOMOTIVES,

Dummies for Street Railroads,

Pole Railway Locomotives and Cars,**ENGINES, BOILERS, & SAW MILLS.**

Also, Freight Cars, of all styles, Railroad Spikes, Fish Plates, Bolts, Car Axles, Car Wheels, Trucks, Links, Pins, and other Car Forgings, Bar Iron, Steel Horse Shoes.

BUENA VISTA IRON PROPERTY,

—IN—

ROCKBRIDGE CO., VA.,

On the Shenandoah Valley and Richmond & Alleghany Railroads,

FOR SALE.

Two good locations for large Steel or Iron Furnaces; 11,500 acres in the tract; covers 5 miles of the Blue Ridge mineral belt; analysis of iron ores show from 60 to 60 per cent. of metallic iron; iron ore veins well developed, showing large quantities of good ore; flattering indications of manganese and tin; unusually good railroad facilities for reaching 4 or 5 large coal fields, affording decided advantages in procuring cheap fuel. Address,

C. F. JORDAN,

Green Forest, ROCKBRIDGE Co., VA.

WOOD ENGRAVING
ELECTROTYPING
PRINTED SUPPLIES.**Manufacturers,**
Wood Engraving,
Electrotyping**and Printing.**

Publishers of The Manufacturers' Exchange.

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HOOPE & TOWNSEND,

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**KEYSTONE BOILER RIVETS,***Cold Punched, Chamfered, Trimmed and Drilled Square and Hexagon Nuts.*

Finished and Case-Hardened Steel Hexagon Nuts.

BRIDGE RODS and RIVETS.**B**uilders' **IRON Work.**

TANK and COOPERS' RIVETS.

PHILADELPHIA, PA.

SKINNER ENGINE CO. Erie, Pa.

Awarded **THREE GOLD MEDALS**
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More than 2000 in Use.

Manufacturers of Portable and Stationary Engines and Boilers, including the well known Skinner Portable return flue boiler.

Send for **ILLUSTRATED CATALOGUE AND PRICES.****Erie Engine Works.**

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ERIE, PA., U. S. A.

Stationary,
Detached,
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Semi-Portable,
Agricultural,

Portable,
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Vertical,

Engines. Boilers.

Send or Catalogue and Prices.

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MANUFACTURERS OF
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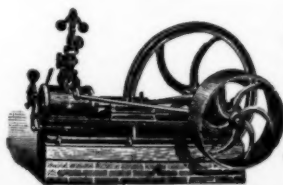
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TAKING NUTS FOR 1/4 INCH
UP TO AND INCLUDING
NUTS FOR 1 1/4 INCH BOLTS
AND ALL DESCRIPTIONS OF STEEL AND IRON DROP FORGINGS.

FOR THE LOWEST-PRICED FIRST-CLASS

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GEO. W. TIFFT, SONS & CO.
Buffalo, N. Y.



5 to 500 H. P. Special stock sizes 5 to 50 H. P., both Stationary and Semi-Portable.

CORRESPONDENCE SOLICITED.

MENTION THIS PAPER.

B. W. PAYNE & SONSBox 1018, **ELMIRA, N. Y.**

107 Liberty St., New York.

10 S. Canal St., Chicago.

Baltimore—Morton, Reed & Co.

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AND

**PORTABLE
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For every duty. Particularly adapted for the South. Thousands now in use. We guarantee the "Payne Automatic" to furnish same power as the ordinary Throttling Engine at one-third to one-half less fuel and water, doing same work. Send for circulars and prices.

JARVIS PATENT FURNACE**FOR SETTING STEAM BOILERS.**

Economy of Fuel, with increased capacity of Steam Power. Like the **Siemens Process of Making Steel**, it utilizes the waste gases with hot air on top of the fire. Will burn all kinds of waste fuel without a blast, including Slack Coal, Sawdust, Logwood Chips, &c. Send for Circulars.

Jarvis Engineering Co.,

A. F. UPTON, Treas. and Gen'l Manager,
61 Oliver St., Boston, Mass.

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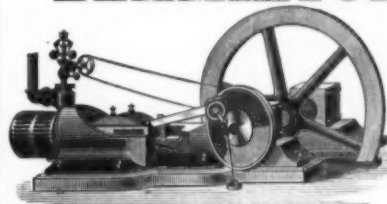
Eagle & Phenix Mfg. Company, Columbus, Ga.
Anniston Mfg. Co., Anniston Ala.
J. P. King Mfg. Co., Augusta, Ga.
Rose Mining Co., Charleston, S. C.
Maryland Pavement Co., Baltimore, Md.
Brush Electric Light Co., Baltimore, Md.
Ettrick, Matson and Battersea Mfg. Co's., Petersburg, Va.
Rain Fertilizing Co., Baltimore, Md.
Tanner & Delaney Engine Co., Richmond, Va.
Sibley Mills, Augusta, Ga.

Graniteville Mfg. Co., Graniteville, S. C.
Charleston Bagging Co., Charleston, S. C.
P. H. Mayo & Bros., Richmond, Va.
Phosphate Mining Co., Beaufort, S. C.
Brush Swan Electric Light Co., Norfolk, Va.
Columbus Ice & Refrigerator Co., Columbus, Ga.
Lenoir Manufacturing Co., Lenoir, East Tennessee.
Vanceuse Mill, Graniteville, S. C.
Charleston Electric Light Co., Charleston, S. C.

HAMILTON WORKS.**WILLIAM TOD & CO.**

YOUNGSTOWN, OHIO,

SOLE BUILDERS OF THE

PORTER-HAMILTON ENGINE

50 to 500 Horse-Power. Modern design. PLAIN, STRONG, EFFECTIVE, ECONOMICAL.
COSTS LESS THAN ANY OTHER FIRST-CLASS ENGINE. Send for Photograph.

BLAST FURNACE ENGINES ON HAND.

ALSO A STOCK OF OTHER ENGINES (our make.) Prices and description on application.

BOILERS

MAHONING BOILER WORKS
ESTABLISHED 1863.
PIPES, STACKS, BEAMS, ROOF TRUSSES,
BLAST FURNACES & ROLLING MILL WORK.
WM. B. POLLOCK & CO. YOUNGSTOWN, OHIO.

Build AND Repair Your Machinery

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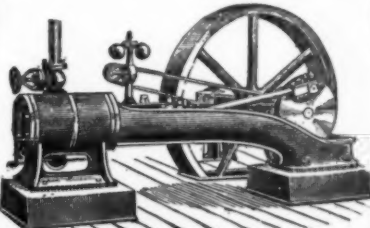
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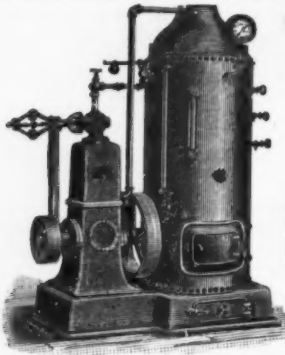
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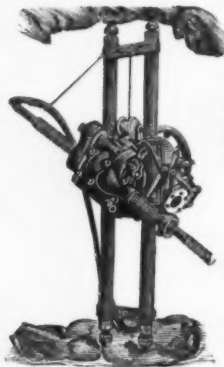
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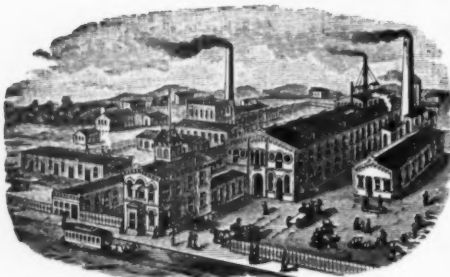
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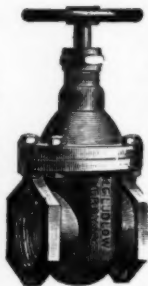
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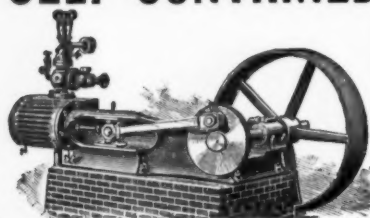
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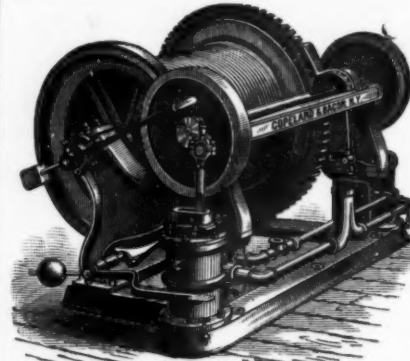
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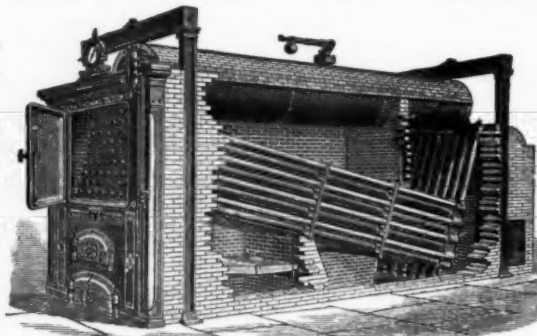
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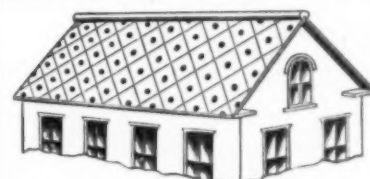
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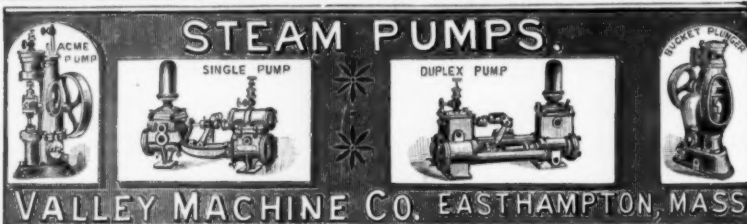
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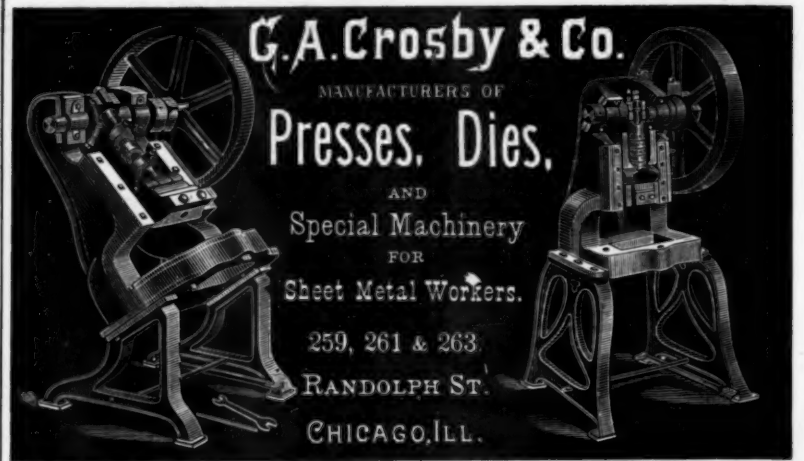
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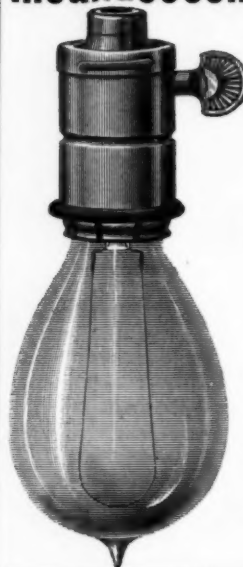
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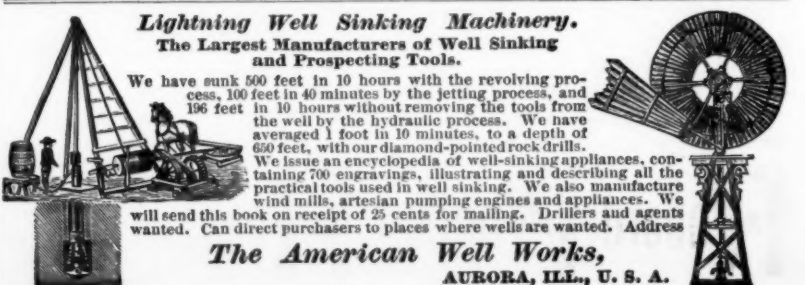
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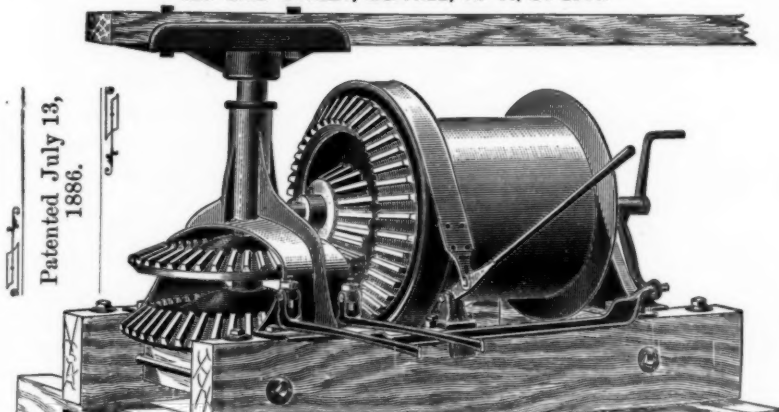
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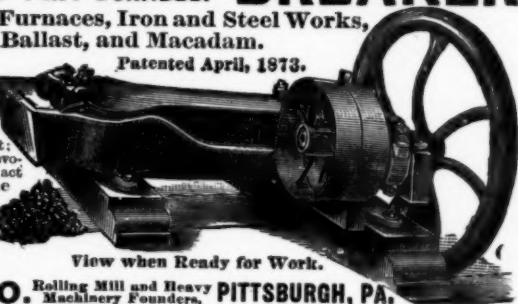
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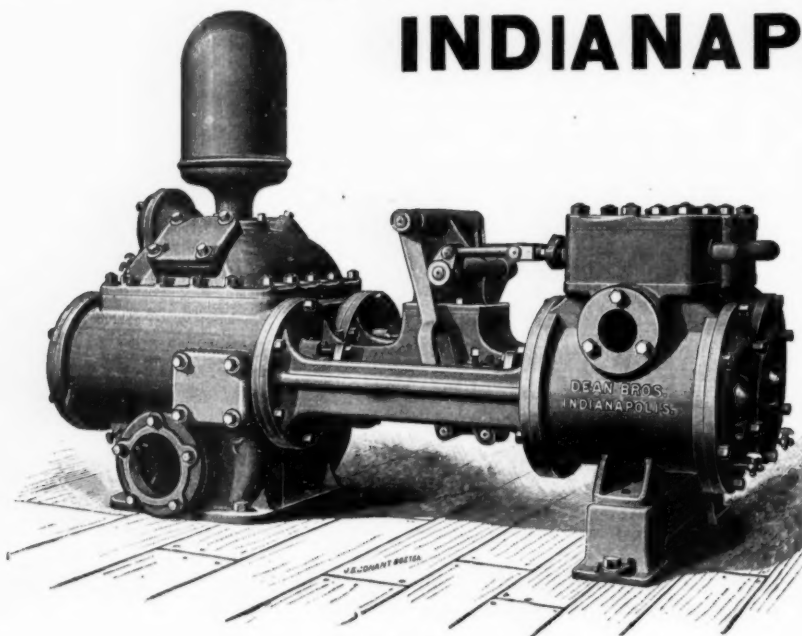
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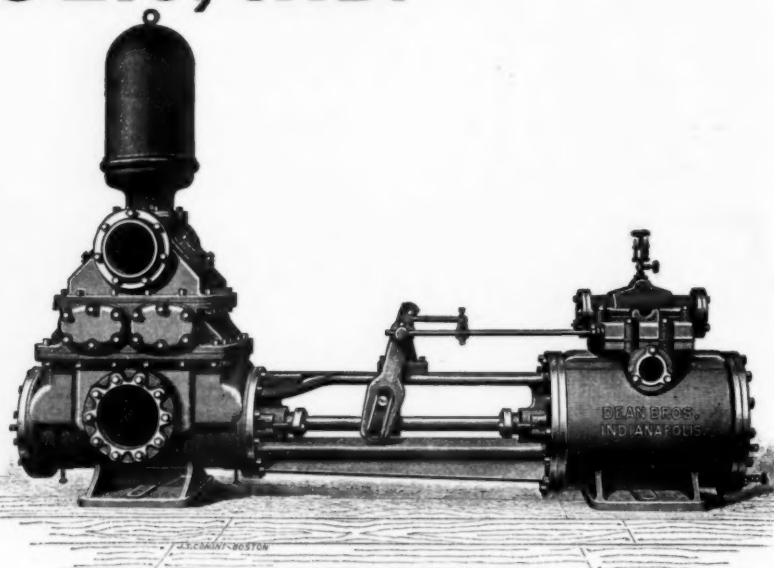
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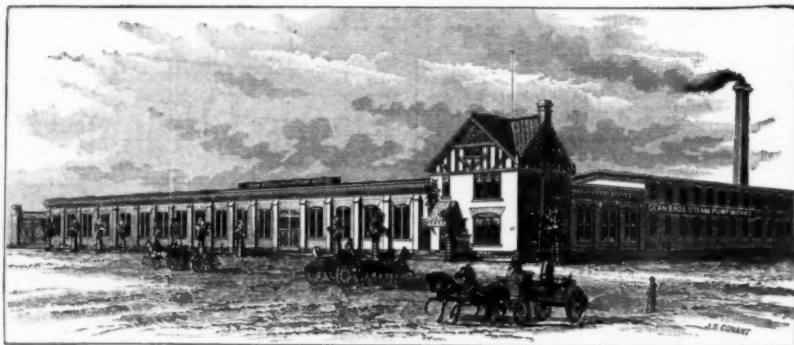


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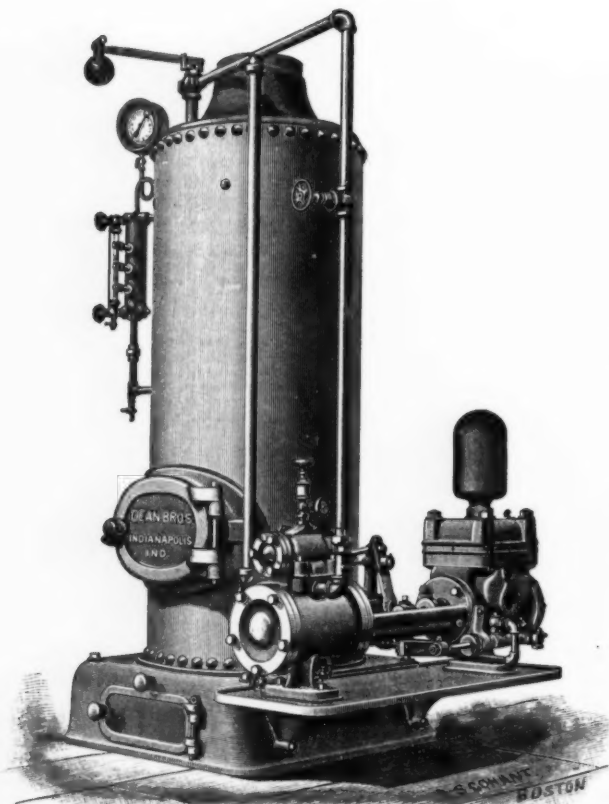
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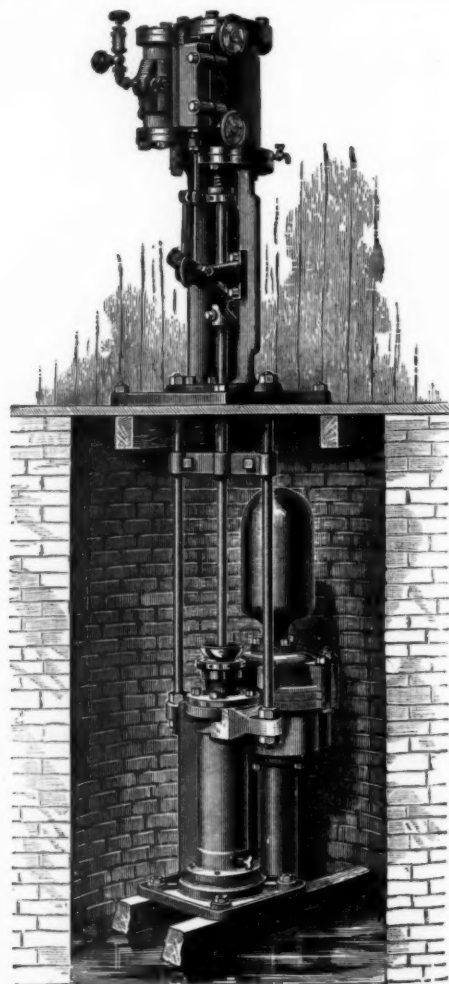
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Dealers in Roller Coverers, Stock and Tools; Cotton and Woolen Mill Supplies.

Full Line "Hick's" United States Standard Ring Travelers, Mill Wire Goods, Spring Cotters, Belt Hooks, Lacing, &c., kept constantly on hand.

Wrought Iron Pipe Fittings and Brass Goods. Southern Agents for the celebrated "B. C. & D. Oak Tanned Patent Lap Belting, Galvin Compound Wedge Gate Valve Imhauser's Watchman Time Detectors, Diamond Emery Wheel Machine Co., &c.

Office and Salesroom No. 62 S. Broad Street. ATLANTA, GA.

THE RICHMOND Fire Alarm, Police and Patrol TELEGRAPH SYSTEMS.

Adopted by the Most Progressive Cities in the United States.

MANUFACTURED BY

THE RICHMOND FIRE ALARM CO.

Correspondence Solicited. RICHMOND, IND. Send for Catalogue.

NIAGARA STAMPING & TOOL CO. BUFFALO, N. Y.

MANUFACTURERS OF

FOOT AND POWER SHEARING MACHINERY

AND

Presses and Dies for Working Sheet Metal.

Power Chopping Shears for Nail and Tack Plates, and for Cutting Steel for Cutlery, etc., Works.

**Tinners' Machines
AND TOOLS OF ALL KINDS.**

Corrugating and Curving Rolls for Roofing, Siding and Ceiling. Squaring, Circle, and Hand Shears. Send for our complete illustrated Catalogue and Price List, and Mention this paper.

COLEMAN HARDWARE CO.

Sole Manufacturers of the

SHUMARD Sash Balance.

NO WEIGHTS, NO CORDS, NO PULLEYS,

NO BOX FRAMES.

Balances the Sash perfectly, and runs as Easily as Weights. Easily applied to any WINDOWS, and is Simple, Durable, Reliable and Practical in Every Way.

We make many other Hardware Specialties, and mention particularly the now famous

Nickel Barn Door Hangers,

Ribbed Bessemer Steel Frames, Hot Bent.

Guaranteed Satisfactory to user. Send for Circulars and Prices.

COLEMAN HARDWARE CO.

(Formerly OHIO BUTT CO.)

55 Dearborn St., - CHICAGO, ILL.

Please mention this paper.

LOOK THROUGH the advertising pages carefully. They contain the announcements of the largest and most reliable houses in the country manufacturing and dealing in machinery of all kinds, mill, factory, mine and railroad supplies, hardware, roofing, builders' material, etc. If in need of anything herein advertised, write to the advertisers for catalogues, prices, &c.

Business Chances.

COTTON PRESS.—I have completed model of a cotton press which possesses substantial merit over any press ever put on market. The advantages are economy in packing power, dispatch of work and ease of management. Not being able to handle it, I desire to dispose of the invention. Correspondence solicited. A. H. Harrington, Harrington P. O., N. C.

FREE SITES.—I will give a free site to any parties desiring to erect an iron furnace or any manufacturing enterprise, situated on east side of New river and on Norfolk & Western Railroad between junction with Pocahontas coal road and Central. W. R. Wharton, New River Depot, Va.

WANTED.—A man capable of selecting, preparing and rolling in plug tobacco factory. Must be sober and bring good references. Address C. Whittier, Whittier, N. C.

FORTUNE HERE.—Owing to my health, I wish to sell rights in my New Era Washing Machine. Best out; children work it easily; very simple; pleases every one. Large sizes for laundries. W. L. G. Appleby, Germantown, Md.

WANTED.—A partner with \$10,000 to manufacture and sell a patent medicine not represented in the South. Open field and an opportunity to establish a large and valuable business. Address T. E. H., P. O. box 98, Atlanta, Ga.

WANTED.—A partner with \$2,500 in established photo-engraving business. Advertiser is thoroughly experienced, and will teach business to incoming partner. Address "Photo-Engraving," care box 98, Atlanta, Ga.

WANTED.—A man with a small capital and thoroughly acquainted with furniture manufacturing, to take one-half interest in a factory now being built at Sheffield, Ala. Address Z. T. Spencer, Sheffield, Ala.

A PARTNER WANTED with \$5,000 to \$10,000 capital to assist in carrying on the business of a first-class machine shop, with good business prospects, located in Atlanta, Ga. Address all inquiries to Box 297, Atlanta, Ga.

A PARTNER with \$10,000 to \$15,000 wanted to operate a cotton mill in Mississippi. Experience not essential. Mill in running order and can be had free of rent for one year, and very low rent after that. I have had 20 years' experience and know that the mill can clear \$100 a day. One firm will contract for all the yarn mill makes for two years at good price. Myron Kent, Natchez, Miss.

WANTED.—A situation by a thoroughly competent manager of the advertising department of a patent medicine or similar business. Long experience and first-class references. Address H. E. T., care Box 98, Atlanta, Ga.

A PRACTICAL Stove Manufacturer desires to organize a stock company in a growing manufacturing and commercial Southern city to manufacture stoves and fine castings. Corporations and capitalists who would take an interest, please address for particulars, Stove Manufacturer, care MANUFACTURERS' RECORD.

\$3,000 TO \$5,000 TO INVEST. Wanted to buy out a business or an interest in business, hardware preferred, in some growing city. Box 766, Baltimore, Md.

A PARTNER, owing to advanced age, will sell cheap his half interest in a steam saw mill in Western North Carolina. Mill has capacity of 15,000 feet per day, and is located on railroad and good logging stream, on which is an inexhaustible supply of good timber. If desired, the entire mill may be purchased. Address Duff Merrick, Asheville, N. C.

WANTED.—A position in some responsible machine manufacturing, where steam engines or wood-working tools are built. Have 10 years' experience, and have several important inventions in steam engines and wood-working machinery. For further particulars and reference address H. F., 2014 W. Market street, Louisville, Ky.

\$250 SINGLE. \$350 DOUBLE.

With Saws and Tools. Top Saw Frame can be added to Single Mill when desired. Capacity, 2,000 to 5,000 per day with 3 men. 16 to 15 horse portable engine will drive it. Agents wanted. Send for description and terms. ROCKWOOD, NEWCOMB & CO. 180 to 190 S. Pennsylvania St., Indianapolis, Ind.

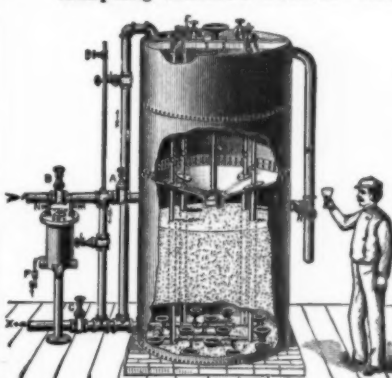
ALWAYS ASK FOR
ESTERBROOK'S
CELEBRATED
STEEL PENS.

PENS

LEADING NUMBERS:
048, 14, 130, 333, 135, 161
For Sale by all Stationers.
The Esterbrook Steel Pen Co.
25 John Street, New York

The HYATT PURE WATER SYSTEM.

Adapting Nature's Process—Endorsed by the Highest Authority.



A Perfect Water Purifying System.
In constant use by Cities, Towns, Water Companies, Factories, Mills, Steam Boilers, Public Institutions, Private Residences.
Indispensable to Textile Manufacturers.
Adapted to every condition requiring Clean, Bright Water in any quantity. Perfect in Operation. Quickly Cleaned Automatically. Reliable, Indestructible.
Muddy Water Made Clean.
HARD WATER MADE SOFT.

Organic and semi-soluble elements removed. Scale and Mud Deposits in Boilers Prevented. With hundreds of plants in operation, treating all kinds of water, our system HAS NEVER FAILED. Promised Results Guaranteed. Adopted by Somerville & Raritan N. J. Water Co.; City Water Co., Belleville, Ill.; Water Works, Charleston, W. Va.; Clark Thread Works, Newark, N. J.; Earl & Wilson, Troy, N. Y.; Norfolk & N. B. Hosiery Co., New Brunswick, N. J.; Victor Knitting Mills, and sixteen other knitting mills, in Cohoes, N. Y.; Hon. Daniel Manning, Albany, N. Y.; Western Steel Works, St. Louis, Mo., and hundreds of others. Representative Agents Wanted. For Circulars, Prices, &c., Address

THE NEWARK FILTERING CO., Tribune Building, NEW YORK.

C. L. JACKSON & Co.

14 W. German Street,
BALTIMORE, MD.

—AGENTS FOR AND REPRESENTING—

STAR TOOL CO.

Lathes and Machine Tools.

W. F. & JOHN BARNES CO.

Lathes, Drills and Light Machinery.

F. E. REED,

Lathes, Millers, &c.

GARDNER VERTICAL ENGINES,

1 to 25 Horse Power.

HUYETT & SMITH MFG. CO.

Exhaust Fans and Blowers.

AKRON IRON CO.

Calendered Iron and Steel Shafting.

SCHIEREN & CO.

Extra, Standard and Electric

Leather Belting.

We carry stock of above manufacturers, machinery of all kinds. Estimates furnished on complete shop-outfits.

WE HAVE SOME SECOND-HAND
ENGINES AND MACHINERY
FOR SALE.

Lists sent on application.

ROOT'S NEW IRON BLOWER,



POSITIVE BLAST.

IRON REVOLVERS,
PERFECTLY BALANCED.

Has fewer parts than any other Blower. Also, Blacksmith Blowers, Portable Forges, Tuyers, Irons, and Gas Exhausters.

P. H. & F. M. ROOTS, Manufacturers,
CONNEVILLE, IND.

Send for Priced Catalogue.
No. 7 CANAL STREET.

McShane & Bell Foundry

Fine Iron and Brass Castings Made to Order.



Manufacture those celebrated Bells for Tower Clocks, Court-Houses, Cotton Mills, Factories, &c. Prices and catalogues sent free. Address H. McSHANE & CO. Baltimore, Md.

Mention this Paper

PORTLAND CEMENT.

German and English Brands of Best Quality.

Send for tests and all particulars to

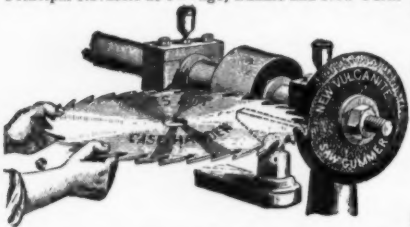
ERSKINE W. FISHER,

WELLES BUILDING, No. 18 Broadway. - NEW YORK.

VULCANIZED RUBBER BELTING, PACKING, HOSE.

THE OLDEST AND LARGEST
Rubber Belting with SMOOTH METALLIC RUBBER SURFACE.

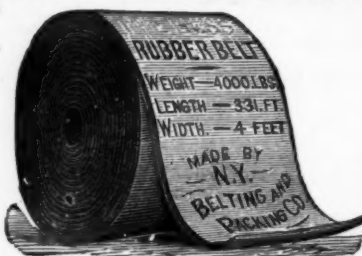
This company has manufactured the largest Belts made in the world for the Principal elevators at Chicago, Buffalo and New York.



**VULCANITE
EMERY**

**Saw Gummer
DOES NOT
CASE HARDEN.**

**DURABLE,
SAFE AND STRONG.**



New York Belting and Packing Co.

J. H. CHEEVER, Treas.

Sole Mfrs., 15 PARK ROW, NEW YORK.

MANUFACT'RS IN THE U. S.
Steam and Water Hose.

RUBBER "TEST" HOSE, made of Vulcanized Para Rubber and Carbolized Duck.

Cotton "CABLE" HOSE. Circular, Woven, Seamless, Antiseptic, for the use of Steam and Hand Fire Engines, Force Pumps, Mills, Factories, Steamers and Brewers' use.

Patent Elastic Rubber Back Square Packing

Rubber Matting, Mats, Stair Treads, etc., for Halls, Flooring, Stone and Iron Stairways, etc.



BOILER and PIPE COVERINGS.



ABSOLUTELY
FIRE PROOF,
Light and Cheap.
EASY TO APPLY.

ASBESTOS

MINERS and MANUFACTURERS,
BRAIDED PACKING, MILL BOARD,
SHEATHING and SPECIALTIES.

CHALMERS-SPENCE CO., Foot of 8th St., N.Y.

WILLIAM TAYLOR & SONS,

COLUMBIAN IRON WORKS,

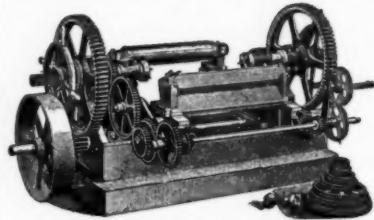
23 to 39 Adams Street, **BROOKLYN, N. Y.**

Oil Works Machinery,

HYDROSTATIC PRESSES,

Engines, Boilers, Castings, and Machine Making.

Veneer Cutting Machines,



Farrel-Veneer Machine.

ROTARY and UPRIGHT.

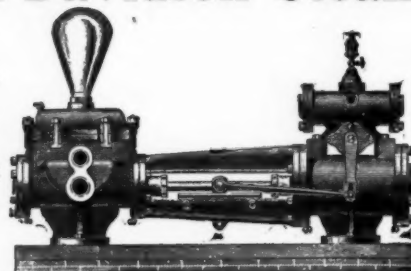
Best in the Market.

FARREL FOUNDRY & MACH. CO.

ANSONIA, CONN.

THE M. T. Davidson Steam Pump.

Simple,
EFFICIENT,
Reliable,
FOR ALL
PURPOSES
AND
DUTIES.



MADE IN
ALL SIZES,
WHETHER
SINGLE OR
Duplex.

ALSO
COMPOUND
Pumping
ENGINES.

DAVIDSON STEAM PUMP CO., 77 Liberty St., NEW YORK.

LEDBETTER & CO.

Land and Loan Association.

(INCORPORATED.)

Commission Dealers in Lands, Stocks and Bonds.

City and Mineral Property a Specialty.

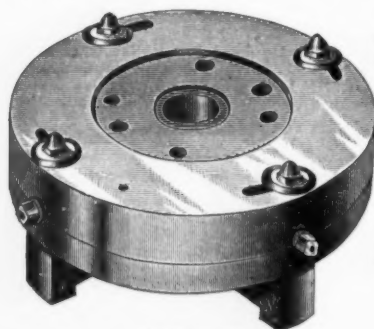
Capital Stock
\$100,000.

—REFERENCES:—
First National Bank, Anniston, Ala.
Col. Jno. M. McKleroy, Prest. Annist n City Land Co.

ANNISTON, ALA.

— CORRESPONDENCE SOLICITED. —

NEW PATENT COMBINATION LATHE CHUCK.



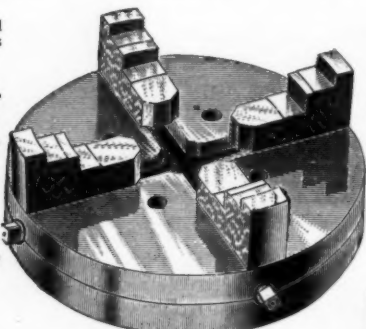
BACK VIEW.

This Chuck is constructed upon the same general principles as the well-known

Horton Chuck

with the additional feature that it can be used either as an

**Independent,
Universal Concentric
or Eccentric.**



FRONT VIEW.

Warranted to be the
Strongest, Most Accurate, and Easily
Operated Combination
Chuck in the
market.

TRADE MARK:

The Horton Lathe Chuck.



VIEW OF WORKING PARTS.

Manufactured by **THE E. HORTON & SON CO., WINDSOR LOCKS, CONN., U. S. A.** Send for Illustrated Price-List.

Literary Notes.

LIPPINCOTT'S Monthly Magazine, a popular journal of general literature, for April contains: Douglas Duane, a romance, by Edgar Fawcett; Belgravia Bohemia, by Lucy C. Lillie; The Mystery of Cro-a-tan, (an American ballad,) by Margaret J. Preston; My Lady's Maid, (a true story); A Spring Song, (a poem,) by Bessie Chandler; Experiences of a Public Lecturer, by Will Carleton; Social Life at Princeton, by E. M. Hopkins; My Grave, (a sonnet,) by Philip Bourke Marston. Our monthly gossip: Mr. Burroughs and Dr. Abbott, by W. H. Babcock; Literary Log-Rolling; an author's complaint; author of "Taken by Siege." Book-talk, by W. S. Walsh; recent volumes of poetry by known and unknown authors; the Outlook for Poetry; Browning's Last Volume; Two Unconscious Humorists; Two Books of Travel.

MR. W. R. GREGORY, who has for several years been manager of Wood and Iron, has disposed of his interest to a number of Minneapolis gentlemen who will put considerable capital into the paper and use every endeavor to improve it and largely increase the circulation. Mr. C. L. Redfield, who has been partially identified with the paper for some months, will have complete charge of the editorial department.

THE March Pansy opens with a capital story for boys, written by Pansy herself, followed by another for girls, "Fretting Lettie," by Mary E. Metheny, of Tarsus, Asia Minor. The leading stories, by Mrs. G. R. Alden (Pansy) and Margaret Sidney, possess unusual interest, while the sketch of Remarkable Women (Queen Victoria) with portrait and picture of the Queen's home in the Scottish Highlands, the poem for recitation, combining counsel with history, the shorter stories, sketches and verse, make up a number not to be excelled in reading for boys and girls, as well as the entire family. Illustrated. \$1.00 per year. D. Lothrop & Co., Boston.

THE Washburn & Moen Manufacturing Co., of Worcester, Mass., have issued the fifth edition of their little pocket handbook of facts and figures that constitute the basis of the science and practice of telegraphy and its latest kin—the telephone and the electric light. The concise summary of facts and statistics presented in these pages will be found to cover the latest discoveries and footsteps of progress in a continually widening field, concerning whose possibilities of future advance and discovery, the wisest scientist is sure to be least confident and self-asserting.

TRADE NOTES.

THE Jas. Ohlen & Sons Saw Manufacturing Co., of Columbus, Ohio, report a largely increasing business. They are obliged to run their works 13½ hours per day, and have increased their force to 125 men. This concern have an extensive Southern trade, and are represented in the South by the Birmingham (Ala.) Saw Works; in Atlanta, Ga., by Rhoades & Walers; in Augusta, Ga., by George R. Lombard & Co., and in Little Rock, Ark., by Baird & Bright. If you have not their new catalogue for 1887, write and receive a copy free.

THE Progress Engine & Machine Works at Summerfield, Md., M. C. R. R., are having orders for their Kirkwood Automatic Iron Wind Engine from all parts of the country. They have just shipped mills to Arizona and Texas, and are preparing a shipment, to fill an order for 10 mills, for California. Their works are running on full time and they find even then some difficulty in keeping up with the orders for their other specialties—lathe heads, emery grinders and gear cutters.

THE Champion Iron Fence Co. Kenton, O., whose advertisement appears in this issue, are said to have the largest iron fence and ornamental works in the United States. Among their specialties may be mentioned jail and court-house work, iron stairways and builders' iron-work, iron tree-guards, lamp-posts, brackets and railings for balconies, crests, etc.; in fact, everything in architectural and ornamental iron-work fully described and illustrated in their handsome catalogue of 166 pages, which should be in the hands of every architect and builder in the land. It will be sent free to such as are interested.

MESSRS. E. C. STEARNS & Co., of Syracuse, N. Y., write us as follows: "On March we obtained an order restraining the Syracuse Sash & Door Co. from making, selling or offering for sale, the Tabor Window Screen Frame; also an order to show cause why the restraining order should not be made permanent pending the decision of the suit against the Syracuse Sash & Door Co., said order being returnable on March 15th. On March 15th, 1887, the restraining order was continued in force until the final disposition of the motion for injunction, and the Syracuse Sash & Door Co. are now under injunction, preventing them from manufacturing, offering for sale or selling the Tabor Window Screen Frame."

MURRAY & STEVENSON, the pioneers in the foundry and machine business in Anniston, Ala., have done a remarkably successful business there, and have been compelled to build a large addition to their foundry to increase their facilities. They are now putting in a large Baker blower. They now have orders ahead for over 1,000 tons of work.

T. C. SNYDER & Co., of Canton, Ohio, have issued a very attractive illustrated catalogue of iron roofing, siding, ceiling, &c., in which many facts of interest regarding these materials are given. Local agents are wanted throughout the South.

THE National Wire & Iron Co., of Detroit, Mich., are extensive manufacturers of all kinds of wire cloth and galvanized wire netting. Of everything in this line they carry a full stock, and will quote prices on application.

WRIGHT, SPENCE & Co., Rome, Ga., will take pleasure in answering enquirers relative to the manufacturing, agricultural and mineral interests of that section of Georgia.

Important.

When visiting New York city, save baggage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand Central Depot.

600 handsomely furnished rooms at \$1 and upwards per day. European plan. Elevators and all modern conveniences.

Restaurants supplied with the best. Horse cars, stages and elevated railroads to all depots. You can live better for less money at the Grand Union Hotel than any other first class hotel in the city.

THE "American," of Boston, more than sustains its well-earned reputation as one of the best managed hotels in New England. Particular attention is paid to the comfort of guests, and a desire to please is apparent in all parts of the house.

WHEN in Cincinnati, stop at the Palace Hotel. Rates, \$2.00 and \$2.50 per day; meals, 50 cents each. Elegant rooms; fine table, and centrally located.

THE St. James Hotel, St. Louis, Mo. (opposite the "The Southern"), has the best location, and gives first-class accommodations for \$2.00 per day.

List of Patents.

The following Patents were granted to citizens of the Southern States, bearing date March 15, 1887. Reported expressly for this paper by Louis Bagger & Co., Mechanical Experts and Solicitors of Patents, Washington, D. C.

Anderson, T. E., Weldon, N. C.	Seal-lock	359,488
Brandes, H. H., Corydon, Ky.	Hame-fastener	359,493
Capers, J. S., New Orleans, La.	Fare-box	359,346
Cox, T. J., Gainesville, Texas.	Portable flour and meal bin	359,347
De Camp, Albert, Chattanooga, Tenn.	Boiler cleaner	359,501
Dunkin, James, Bridgeport, W. Va.	Horse-rake	359,534
Foster, E. M., Baltimore, Md.	Dumb-walter	359,437
Garrett, A. F. M., and A. J. Sanford, Dadeville, Ala.	Back-band buckle	359,454
Goldman, Edward, Baltimore, Md.	Shoulder-pad	359,441
Gulley, C. S., Catlettsburg, Ky.	Cultivator	359,535
Heatwole, S. H., Hinton, Va.	Wind-wheel	359,443
Hinchman, F. M., Waco, Texas.	Gang-plow	359,355
Hodnett, W. C., Douglasville, Ga.	Vehicle-wheel	359,445
Luzer, E. H., Trussville, Ala.	Plow	359,381
Jones, W. E., and H. Winniatt, El Paso, Texas.	Pipe connection	359,394
King, R. E., Warrenton, N. C.	Fruit jar	359,449
Kollenberg, G. A., Owensborough, Ky.	Rim-turner	359,263
Pate, Travis, Donaho, S. C.	Plow	359,465
Pattison, A. S., Cambridge, Md.	Copy-holder for type-writing machines	359,466
Thatcher, W. C., Baltimore, Md.	Spirit-level	359,580
Toulmin, Morton, Baltimore, Md.	Druggist-alarm	359,581
Townsend, J. J., Portsmouth, Va.	Stern-bearing for propeller shafts	359,298
Warnock, D. W., Lexington, Ky.	Combination-tool for squaring, leveling, &c.	359,372
Wherry, J. R., Little Rock, and W. B. Turman, Waldron, Ark.	Fare-box for street cars	359,482
Wilkes, Washington, Sylacauga, Ala.	Wheel-harrow	359,339

A. P. THAYER, Solicitor of U. S. and Foreign PATENTS,

No. 86 Astor House, New York.

Experience of Over 20 Years

WANTED.

BY THE
Atlanta Machine Works,
ATLANTA, GA.
A Good and Steady Pattern Maker.
ADDRESS BOX 352.

PROTECT YOUR INTERESTS!

BUY THE IMPROVED

"STANDARD" WATCHMAN'S CLOCK.

Recommended by Fire Insurance Companies, to control Watchmen in Factories, Warehouses, etc., etc. The only reliable instrument of its kind and warranted superior to all others. Will be sent on trial. Price for Twelve Stations Complete, \$50.

It will pay you to send for circular before ordering elsewhere.

O. E. HAUSBURG,
Sole Agent, 71 Nassau St., New York

N. B.—All kinds of Watchman's Clocks repaired and warranted to give satisfaction.

ICE MACHINE.

The advertiser, owning a first-class Ice Machine, desires a party to take an interest in same and erect it in any good Southern town. Party taking interest to manage the business, or if stock company is organized, owner will sell and take stock.

Address P. O. Box 249,
KANSAS CITY, MO.

CHAMPION IRON FENCE CO.

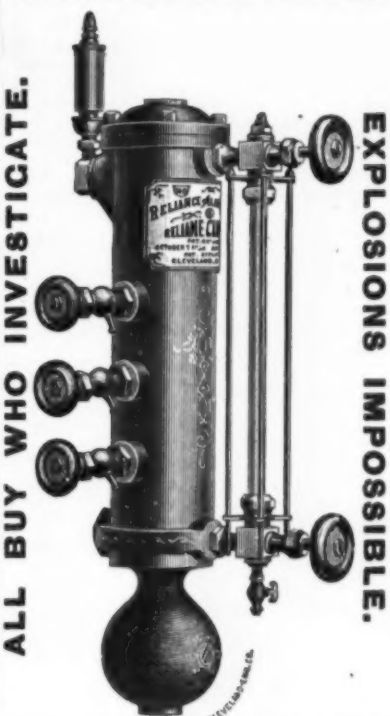
KENTON, OHIO.

Largest Iron Fence and Railing Works in U. S.



SPECIALTIES—Iron Stairs and Jail Work, Builders' and Ornamental Iron Work, and the only manufacturers of Malleable Iron Cresting, guaranteed against breakage; also manufacturers of the Celebrated Ohio Champion Iron Fence and Lift Pumps. Send for 120-page Catalogue.

RELIANCE ALARM GAUGES



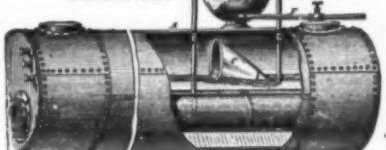
AGENTS WANTED EVERYWHERE.
Illustrated Price-List Free.

RELIANCE GAUGE COMPANY,

Office, Argyle Building, CLEVELAND, OHIO.

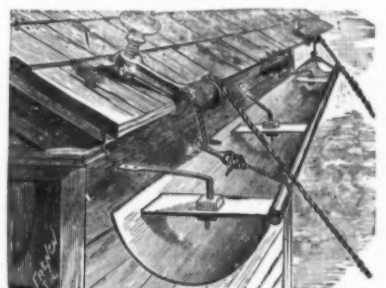
HOW TO KEEP BOILERS CLEAN"

And Prevent SCALING, FOAMING, BURNING. Price \$75.00. Removes Lime Oil, Magnesia, without use of Comounds

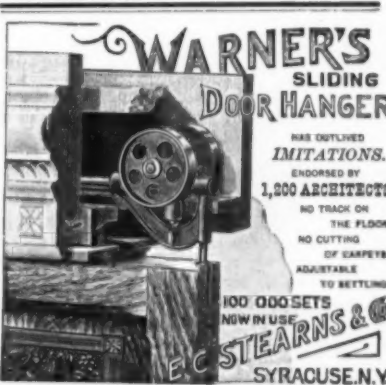


Hotchkiss Mechanical Boiler Cleaner,

Illustrated in an eighty-eight page book, which will be mailed free, to any address, by JAS I. HOTCHKISS, 98 JOHN ST., N. Y. Beware of Infringers.



THE WOODRUFF'S PATENT CELEBRATED AMERICAN SUSPENDING EAVE TROUGH HANGER. The best in the world. Manufactured by GEO. W. HEARTLEY, 303 St. Clair St., Toledo, Ohio. Send for prices.



AUTOMATIC CUT OFF ENGINES

Embodying a new system of Absolute Regulation against a change of load and boiler pressure. The most perfect governing ever obtained. Send for circular. We guarantee better regulation than is possible for any other engine to give.
BALL ENGINE CO., ERIE, PA.

Will Erect a \$50,000 Hotel.

MEMPHIS, TENN., March 16, 1887.

Editor Manufacturers' Record:

We have just organized our company to build a hotel in Clarksville, to be known as the "Arlington," the cost of which when completed is to be about \$50,000. The work will be pushed as rapidly as the nature of the works will permit.

H. C. MERRITT, Chairman.

New Factories at Dalton.

DALTON, GA., March 17, 1887.

Editor Manufacturers' Record:

Mr. W. P. Bass is working up a broom factory company, and will succeed, as his prudence and financial standing will secure capital needed.

D. K. McKenny is looking into the cigar making business, and will be controlled by reports received from experts.

Mr. C. T. Orr will start planing mill, with a strong company behind him.

The Cherokee Manufacturing Co. is getting material on ground to build at once. Adairs Bros. & Co. have bought 20 acres of ground for wagon factory.

H. A. WRENCH, Ed. Argus.

Will Build 50-Barrel Flour Mill.

EUREKA SPRINGS, ARK., March 16, 1887.

Editor Manufacturers' Record:

We will build a 50-barrel mill on the centrifugal system; be completed about July 1.

WEBB & BROWN.

To Build Furnaces.

ATLANTA, GA., March 16, 1887.

Editor Manufacturers' Record:

The Etowah Iron & Manganese Co. was organized March 8; J. W. Rankin as president; L. J. Hill, vice-president; Aaron Haas, secretary, and A. W. Hill, treasurer. The property has been recently carefully examined by a mining expert, who reports a strata of manganese and brown hematite iron ore, covering two (2) miles in width by eight miles long, running north and south. Our surveying corps start on to-morrow and mining corps next week to locate best places for furnaces.

J. W. RANKIN.

PULASKI CITY, VA., March 17, 1887.

Editor Manufacturers' Record:

We have received contract for 1,000,000 bricks for the furnace plant at this place, and have orders for as many more from different parties.

NICHOLSON & TEANY.

To Build a \$100,000 Cotton Factory.

TEMPLE, TEX., March 14, 1887.

Editor Manufacturers' Record:

We expect to build a cotton factory to cost about \$100,000 or more in Bell or adjoining county. It will be built and controlled by the Farmers' Alliance. The charter is drawn and officers for first year elected.

JAS. M. SMITH, Secy.

Will Start a Brick-Yard.

YAZOO CITY, MISS., March 15, 1887.

Editor Manufacturers' Record:

I have bought a brick machine and am going into the brick business in Yazoo City. Expect to make a million or two of brick this season, as I have just begun.

T. M. MUSE.

BIRMINGHAM, ALA., March 15, 1887.

Editor Manufacturers' Record:

We have organized the Bessemer Manufacturing Co., to be located at Bessemer, Ala.; paid-up capital \$25,000. Will manufacture sash, doors and blinds, etc. S. T. Brittle, president; A. J. Camp, secretary. This takes the place of the Bessemer Planing Mill Co.

WM. BERNEY.

Machinery Wanted.

ROCKMART, GA., March 15, 1887.

Editor Manufacturers' Record:

W. Ferguson and J. A. Fambro want prices on 20 horse-power engine on sills, and double surface planer about 20 inches wide, with matcher about 8 inches wide, and re-saw, and scroll saw.

J. A. FAMBRO.

Art Tile Factory.

COVINGTON, KY., March 21, 1887

Editor Manufacturers' Record:

We have started an art tile factory for the purpose of making plain and relief art tile and enameled brick. We will be able to make from 3,000 to 6,000 square feet of tile and any amount of enameled brick ordered. We have taken two expert tile men into the business, and hope to make it a success.

J. J. BUSSE & SONS.

Will Build a Roller Flour Mill.SPEEDWELL, WYTHE CO., VA.,
March 19, 1887.*Editor Manufacturers' Record:*

We will start our Speedwell furnace about the first of April. We are also sawing bill of lumber for a mill house. Machinery for the same to be of the short system roller; capacity about 50 barrels per day, and hope to complete it this summer.

WYTHE & SPEEDWELL MINING & IRON CO.
J. H. SHUFF.**New Saw Mill.**

ROGERSVILLE, TENN., March 21, 1887.

Editor Manufacturers' Record:

I am starting a new mill in Scott county, Va., and will cut about 2,000,000 feet poplar this year. This is the finest poplar I have ever handled, and is just becoming accessible through a new railroad running North from Bristol. My plant is 5 miles south of Estillville, near the finest mineral spring in the South, which can be bought for a few hundred dollars, and will be worth a gold mine in time.

JNO. J. WOLFE.

Will Open New Coal Mines.

COAL VALLEY, W. VA., March 16, 1887.

Editor Manufacturers' Record:

We are going to open a new mine in addition to the mines that we are now operating at Coal Valley. Our new mines will be at Plymouth, Putnam county. Are going to commence at once. Have one-half mile of standard gauge road to build to mines. Will operate the celebrated Raymond City vein. Have it opened in three different places and it shows six feet in thickness. We have 640 acres of coal lands, (its on the K. & O. R. R. and Great Kanawha river), and excellent river harbor for loading at river. Expect to ship our railroad coal northwest. Our general office for the present will be at Coal Valley, as there is no postoffice near our new operations.

CARVER COAL CO.

A Barrel Factory Needed.

RALEIGH, N. C., March 18, 1887.

Editor Manufacturers' Record:

I do not seek to advertise any person or property by calling attention to Edenton, N. C., as a suitable place for a profitable manufactory of barrels and packages for truck. On the Roanoke river for several miles there is a swamp growth, half a mile wide, along the banks, of cypress, bowl gum, sweet gum and birch. The timbers named being tasteless, and suitable for fish put up in brine, barrels made of them would reach both the herring or alewife fishery and the mullet fishery, in the catch of which North Carolina is head or next to it in either species. Rough barrels, boxes and crates would find sale for shipment of oysters, clams and market vegetables.

As Edenton can be reached by sail from every eastern fish and truck county north of White Oak Sound, the distribution to all parts of the eastern section would be of easy accomplishment, while Norfolk could be reached by rail or by canal steamers.

Not only is it highly desirable to replace pine staves and heads with no-resinous woods, but it is very important that the fishermen should have machine-made barrels that will not lose the brine. Some years it occurs that the North Carolina catch would realize fifteen or twenty per cent. more if the leaking barrels did not hasten it prematurely on the market. The loss is considerable. Many thousand barrels and crates are annually used in the eastern counties, and it would employ a large concern to supply that demand alone. When fish commissioner of North Carolina I brought this matter to notice, but it appeared in print little further than in home journals.

S. G. WORTH.

BRISTOL TENN., March 12, 1887.

Editor Manufacturers' Record:

We are getting ready to manufacture pressed brick.

DORIOT & WEBB.

New Machinery.

PERRY, GA., March 17, 1887.

Editor Manufacturers' Record:

The Perry Variety Works have placed in position the fine engine from Talbot & Sons, which took the first premium at the State fair held in Macon last fall. They have also received from the same party a No. 2 saw mill and a 42-inch rim of stones. They will furnish all kinds of building lumber and manufacture brooms, hoe handles and a variety of other goods. More machinery will soon be added, such as a planer, matcher and moulding machine, a gauge lathe, cotton gin, small saws, shafting, &c. The raising of the broom corn is to be given to the farmers near at home. The establishing of this plant in Perry seems to give a manufacturing boom to the whole community. Denmead & Hughes are now running their cotton factory with a larger force than ever before.

X.

Erected New Pottery.

PINSON, TENN., March 15, 1887.

Editor Manufacturers' Record:

We have put up a new pottery, which is 27 by 52 feet. It is now in running order, situated two miles from Pinson at clay bank. Clay of several kinds in abundance. Will make more improvements after while.

STEWART & ALEXANDER.

Starting a Canning Factory.

BRISTOL, TENN., March 14, 1887.

Editor Manufacturers' Record:

We are starting a canning factory at this place, making the necessary arrangements. Our building will be 30x70 feet, 1½ stories, with 12 feet shedding on both sides. Will be erected and ready for business the 1st of August, 1887. Capacity, 100,000 cases. The Clinch River Veneering Co. has about completed their large building at this place.

HOLSTON PACKING CO.

Mill Notes from Alabama and Georgia.

MONTGOMERY, ALA., March 15, 1887.

Editor Manufacturers' Record:

Churchman, Williams & Co., Eastman, Ga., are erecting a planing mill in connection with their saw mill. George E. Lum & Co., Montgomery, Ala., general agent Atlas Engine Works, Indianapolis, Ind., sold them 40 H. P. engine and 55 H. P. boiler. William T. Farrar, Anniston, Ala., is erecting planing mill, and has ordered Atlas engine and boiler, 30 H. P., from George E. Lum. H. C. Moss, Calera, Ala., is enlarging his grist mill, and has bought Atlas engine and boiler, 30 H. P., from George E. Lum. C. H. Chandler, Clanton, Ala., enlarging his planing mill, has bought an Atlas engine. McKithen & Spiers, Robinson Springs, Ala., have bought Atlas engine and a Sergeant saw mill from Standard Machine Co., Montgomery, Ala., and have it running.

GEORGE E. LUM.

Bridge Works to be Enlarged.

ATLANTA, GA., March 18, 1887.

Editor Manufacturers' Record:

We have organized a company to put the Atlanta Bridge Works in operation, under the name of the Atlanta Bridge & Axle Co., and will add to the bridge work other specialties in iron and steel. We have a capital of \$150,000.

MILES & HORN.

A 10-Ton Ice Factory.

SELMA, ALA., March 17, 1887.

Editor Manufacturers' Record:

I have bought an H. D. Stratton machine, with a capacity of ten tons, and will erect it in Selma and make ice by the 15th of May. The company is to be named Star Ice Co.

A. J. GOLDING.

To Build a Cotton Factory.

KINSTON, N. C., March 15, 1887.

Editor Manufacturers' Record:

It is understood that there is to be a cotton factory built here during the coming summer by a joint stock company; understand that the capital stock is \$50,000. The company is composed of citizens of this place. They wish to correspond with a competent foreman to take charge when they are ready to go to work, say about Oct. 1.

J. A. PRIDGEN.

Tobacco Factory.

WHITTIER, N. C., March 16, 1887.

Editor Manufacturers' Record:

Clarke Whittier has purchased a complete plant for manufacturing all sorts of plug tobacco.

C. W.

CULPEPER, VA., March 21, 1887.

Editor Manufacturers' Record:

A granite quarry in the Harman estate is about to be developed by Col. Ash Harman. It is understood that work will be commenced soon. The quarry is 2½ miles from Culpeper, Va.

P.

YAZOO CITY, MISS., March 15, 1887.

Editor Manufacturers' Record:

A new Presbyterian brick church will be built here this spring and summer, to cost about \$8,000. The contract is not yet let.

HENRY & MOTT.

Will Erect a Saw Mill.

KISSIMMEE, FLA., March 14, 1887.

Editor Manufacturers' Record:

I will start a saw mill near here in a few days if nothing prevents.

R. H. SEYMOUR.

Erecting Coke Ovens.

DAISY, TENN., March 15, 1887.

Editor Manufacturers' Record:

We have 26 ovens in course of erection; will be finished about April 20th to 25th.

TABLER-CRUDUP COAL & COKE CO.

THE MARKETS.OFFICE MANUFACTURERS' RECORD, }
BALTIMORE, March 23, 1887. }

Business continues unsettled on account of the interstate commerce bill, which restricts transactions for future delivery, as no one knows what the freight rates are to be. With this exception everything is encouraging for a prosperous season in all lines of industry and trade.

There has been no change in the manufactured iron market, and prices continue as last reported, viz:

Ref. Bar Iron, 1 to 6x¾ to 1.....	2.20@	2.50c
" " " 1 to 4x¾ to 1.....	2.20@	2.50c
" " " ¾ to 2, round and		
square.....	2.60@	3 c
Hoop Iron, 1½ wide and upward....	2.60@	3 c
Band Iron, from 1½ to 6 in. wide....	2.50@	2½c
Horseshoe Iron.....	3 c	3½c
Norway Nail Rods.....	4½@	5½c
Black Diamond Cast Steel.....	8½@	10 c
Machinery Steel.....	3 c	4½c
Spring Steel.....	3½@	4 c
Common Horse Nails.....	8 c	9 c
Railroad Spikes, 5½x9-16.....	2½@	3 c
Steel Boiler Plate.....	3½@	3¾c
Iron Boiler Plate.....	2½@	4 c
Boiler Tubes.....	42½@	off list

In the pig iron market there is no change and prices are as last quoted:

Baltimore Charcoal Wheel Iron (all		
Baltimore ore).....	28 00@	29 00
Virginia C. B. Charcoal Wheel Iron....	27 00@	29 00
Anthracite, No. 1.....	21 00@	23 00
" " " 2.....	19 00@	21 00
" " " 3.....	17 00@	19 00
" " " 4.....	14 00@	15 00
Old Rails.....	23 50@	24 50
Old Steel Rails.....	21 50@	23 00
No. 1 Wrought Scrap.....	23 00@	24 00
Old Car Wheels.....	17 50@	18 50

HARDWARE.

No important changes have occurred during the past week either in values or volume of business. The Eastern nail manufacturers advanced their card rate 10 cents per keg to conform to the existing card of the Western manufacturers. In view of the fact that iron is not quite as firm as for some months past, the advisability of the advance is questioned by some, although as the manufacturers took this step only after carefully considering the matter in all its bearings, it is possible, with the necessarily large demand of the near future, that these prices will hold firm. The axe manufacturers have decided to advance prices May 1.

Nails are quoted at \$2.50 to \$2.60.

Philadelphia Iron Market.

PHILADELPHIA, March 22, 1887.

A few inferior brands of iron are selling at 50 cents a ton less than two weeks ago.

Handsomely Bound in Cloth, - \$2.50, including Postage.

PITTSBURGH LOCOMOTIVE AND CAR WORKS,

PITTSBURGH, PA., Manufacturers of

Locomotive Engines for Broad or Narrow Gauge Roads,

From standard designs or according to specifications, to suit purchasers.

TANKS, LOCOMOTIVES OR STATIONARY BOILERS FURNISHED AT SHORT NOTICE.

A. STEWART, Pres't.

D. A. WIGHTMAN, Supt.

WILSON MILLER, Sec'y and Treas.



BUFFALO HAMMER CO., Buffalo, N. Y., U. S. A., Manufacturers of a full line of
Solid Cast Steel Hammers, Sledges, Mauls,



RAILROAD TRACK TOOLS, &c.

Every Hammer or Tool having our name is fully warranted. Catalogues and discounts sent on application.

BAGNALL & LOUD BLOCK CO. BOSTON, MASS.

Largest Manufacturers of Tackle Blocks in the World.

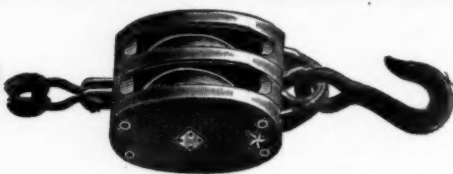
Manufacturers of the Latest Improved Self-Adjusting ROLLER BUSHED and GENUINE METALINE BUSHED and Iron Bushed Rope and Iron Strapped

TACKLE BLOCKS.



Improved Self-Adjusting Roller Bushed Iron Sheave.

Send for the Celebrated
STAR BRAND.

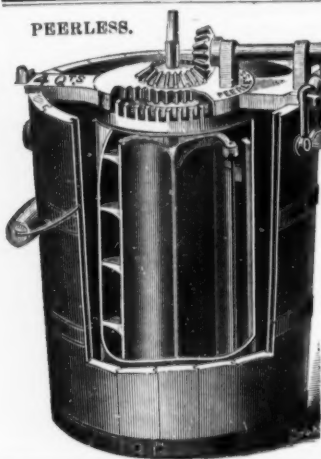


Improved Harcourt Patent Block.

Send for Catalogue
No. 5.



Improved Self-Locking Link Snatch Block.



The Gooch "Peerless"

And "Giant" Freezers.

OUR FREEZERS STAND UNRIVALED.

THE BEST GOODS EVER MADE.

Superior in Every Particular.

No other Freezers ever had such a sale. Send for Price-List and Discounts.

PRICES REDUCED FOR 1887!

MANUFACTURED BY THE

GOOCH FREEZER CO.

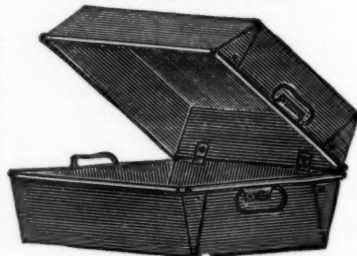
28, 30, 32, 34, E. Ninth Street,
36 and 38

CINCINNATI, O.



The Improved Roaster and Baker.

A SELF-BASTING PAN.



The best device ever made for Roasting and Baking. Every pan warranted to give perfect satisfaction. Can be used as a double open pan, two single pans, and covered single pan. Low prices and Large Discounts to the Trade and Agents. For particulars address,

WACHS BROS. & CO., Patentees and Manfrs.
COVINGTON, KY.

Solid Forged Steel Shears & Scissors.

EVERY BLADE FORGED FROM BAR STEEL AND TEMPERED IN OIL. WE GUARANTEE SATISFACTION.



—Manufactured Solely by—

The CLEVELAND MACHINE CO., CLEVELAND, OHIO.

PNEUMATIC PULVERIZER.

The principle of pulverization consists in the employment of

TWO POWERFUL OPPOSING CURRENTS

of dry super-heated steam, so arranged that they continuously charge themselves with crushed or granulated material, and by the great force and velocity of the steam currents the minerals are dashed against each other with such power of concussion as to cause the hardest ores to be pulverized to any degree of fineness desired. The high temperature of the super-heated steam currents employed, through which every minute particle of ore must pass, causes them to become very hot and dry, which produces a beneficial effect upon Sulphurets and ores containing rusty Gold. The light weight and simplicity of construction of the Pulverizer, the extremely small and inexpensive wearing parts are the WONDER and SURPRISE of all who witness its operation. The Company are prepared to furnish complete plants for pulverizing

10 to 200 Tons Per Day,

Including a Sectional Steam Boiler supplying all the power required.

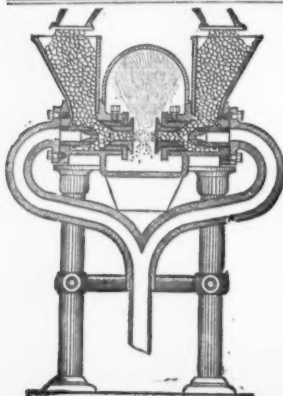
PNEUMATIC PULVERIZER COMPANY,

L. F. HOLMAN, Pres't.

F. A. LUCKENBACH, Supt.

2 and 4 Stone Street, New York.

WRITE FOR PARTICULARS.



Sectional View of Pulverizer.

WM. D. WINES,

Contractor for

IRON BUILDINGS AND IRON ROOFS

Corrugated and Galvanized

IRON WORKS,

44 Centre Street,

Established 1867. **NEW YORK CITY.**

SILVER & DEMING MFG. COMP'Y,
SALEM, OHIO.

MANUFACTURERS OF

Cistern, Well & Force Pumps

Iron and Brass Cylinders,

Wind Mill Pumps and Supplies,

HAND AND POWER ROTARY PUMPS,

BOILER FEED PUMPS.

Hydraulic Rams,

Garden Engines, &c.

Well Drillers' and Well

Drivers' Supplies.

Catalogue of Pumps for Farm and Domestic use, Mines, Factories and Plantations sent on application.



Brass House Force Pump.

BERNHARD DIETZ, Manufacturer of **Printers' Rollers,**

and Roller Composition. Factory, cor. Light and Mercer streets, Baltimore. Prices: Composition, (bulk) 30 cents per lb.; for Casting, also, 30 cents per lb. Orders by Mail promptly attended to.

→ HARDWARE. ←

Baltimore WHOLESALE Prices.

ANVILS.	
Eagle and Vulcan.....	10 c. dis 20%
Wright's.....	9 1/2 c
Armstrong's Mouse Hole.....	9c
Trenton.....	10c
Wilkinson's.....	10c
AUGERS AND BITS.	
Conn. Valley Mfg. Co.....	extra, 60¢10 %
Douglas Mfg. Co.....	No. 1, 60¢10 %
Ives.....	dis 55¢10 %
Cook's Douglass Mfg. Co.....	dis 55¢10 %
Griswold.....	dis 50¢10 %
Patent Solid Head.....	dis 25 %
Russell Jennings' Auger, Dowell, Machine-	
Dowel and Hand Rail Bits.....	dis 10¢10 %
Ives' "Jennings" Bits.....	dis 40¢10 %
Expansive Bits, Clark's small, 1/8; large,	
20.....	dis 35 %
Expansive Bits, Ives.....	dis 45 %
Expansive Bits Blake's.....	\$1.00 and \$1.30, dis 45 %
Hollow Augers, Ives.....	dis 25 %
Hollow Augers, Douglass.....	dis 25¢10 %
Hol. Aug., Bonney's Adjust., 1/2 doz \$4.80.....	dis 40 %
Hol. Aug., Stearns' Adjust., 1/2 doz \$4.80, dis 20¢10 %	
Hol. Aug., Ives' Expansive, each \$4.50, dis 25¢10 %	
Hol. Aug., Universal Expansive, each \$4.50, dis 20 %	
Wood's.....	dis 25 %
Gimlet Bits.....	\$7.50 gross, dis 50 %
Gimlet Bits, Diamond.....	dis 40 %
Double Cut Gimlet Bits, Shephardson's.....	dis 40 %
Double Cut Gimlet Bits, Douglass.....	dis 40 %
Double Cut Gimlet Bits, Ives.....	dis 50¢10 %
Morse's Bit Stock Drill.....	dis 50 %
L'Hommedieu's Ship Augers.....	dis 15 %
AWL HAPES.	
Sewing Brass Ferrule.....	\$3.50 gross—dis 40¢10 %
Patent Sewing, Short.....	\$1.00 gross—dis 40¢10 %
Patent Sewing, Long.....	\$1.20 gross—dis 40¢10 %
Patent Peg, Plain Top.....	\$1.00 gross—dis 45¢10 %
Patent Peg, Leather Top.....	\$1.20 gross—dis 45¢10 %
AWLS, BRAD SETS, AC.	
Awls, Sewing, Common.....	\$1.70—dis 35 %
Awls, Shouldered Peg.....	\$2.45—dis 40 %
Awls, Patent Peg.....	35 c.
Awls, Shouldered Brad, 1/2 gross \$2.70—dis 25¢10 %	
Awls, Handled Brad.....	\$7.50 gross—dis 40 %
Brad Sets, Allen's.....	1/2 doz \$1.20—dis 45¢10 %
Brad Sets, No. 4, 1/2 doz \$1.20, No. 4, 1/2 doz \$1.20, dis 45¢10 %	
Brad Sets, Stanley's Exc., No. 1, 1/2 doz \$1.20, dis 45¢10 %	
Brad Sets, Stanley's Exc., No. 2, 1/2 doz \$1.20, dis 45¢10 %	
Brad Sets, Stanley's Exc., No. 3, 1/2 doz \$1.20, dis 45¢10 %	
Brad Sets, Stanley's Exc., No. 4, 1/2 doz \$1.20, dis 45¢10 %	
AXES.	
Collins & Co.....	\$7.00; beveled, \$7.25
Lippincott or Mann's.....	
Single Bit, 1/2 to 3/4 and under.....	\$7.25 net
Single Bit, 3/4 to 6 and over.....	\$7.75 net
Single Bit, beveled.....	60c. doz. advance
Double Bit, 1/2 to 3/4 and under.....	\$12.00 net
Double Bit, 3/4 to 6 and over.....	\$13.00 net
Double Bit, beveled.....	\$1.00 doz. advance
Second quality Axes.....	75 cts less than above
AXLES.	
Sheldon & Co., iron.....	55% off
" " steel.....	55% off
AXLE GREASE—Fraser's.....	1 lb. 5c.
BALANCES.	
Spring Balances.....	dis 50 %
BELLS.	
Hand, Light Brass.....	dis 75¢10 %
Hand, White Metal.....	dis 70 %
Hand, Silver Chime.....	dis 25¢10 %
Hand, Globe (Cone's Patent).....	dis 25¢10 %
Gong, Abbe's.....	dis 25¢10 %
Gong, Yankee.....	dis 40 %
Gong, Barton's.....	dis 40¢10 %
Leon Reading.....	dis 25¢10 %
Pull, Brook's.....	dis 50¢10 %
Crank, Taylor's.....	dis 25¢10 %
Lever, Sargent's.....	dis 55¢10 %
Bloomfield.....	dis 20 %
Lever, R. & E. M. Co's.....	dis 45¢10 %
Call.....	dis 40 %
Cow, Common Wrought.....	dis 55¢10 %
Cow, Western, Sargent's List.....	dis 70¢10 %
Cow, Kentucky, Sargent's List.....	dis 70¢10 %
Cow, Moore's or Dodge's, Genuine Ky., new list.....	
Nos. 0 1 1/2 2 3 5 6 Hog, dis 70¢10 %	
\$12 \$10 \$8 \$7 \$4 \$3 \$2 \$1 \$5	
Cow, Texas "Star".....	dis 50¢10 %
BELLERS.	
Blacksmith's Common.....	dis 50¢10 %
Molder's.....	dis 50 %
Hand Bellows.....	dis 50 %
BLIND FASTENERS.	
Francis.....	dis 20 %
Mackrell's.....	1/2 doz pairs \$1.00, dis 20 %
Van Sand's Screw Pattern, \$15 gross, net.....	dis 60 %
Van Sand's Old Pattern.....	\$15 gross—dis 55 %
Merriman's.....	new list, net
Zimmerman's, 10 1/4 in.....	gross \$33.00
Zimmerman's, 9 in.....	gross \$30.00
BLIND STAPLES.	
Barbed, 1/2 in. and larger.....	1 lb 9c net
Barbed, 3/4 in.....	1 lb 10c net
BLOCKS.	
Penfield Blocks.....	dis 60¢10 %
Bagnall & Loud.....	dis 60¢10 %
BOLTS.	
Cast Iron Barrel Shutter, &c.....	dis 70 %
Cast Iron Chain (Sargent's list).....	dis 65¢10 %
Wrought Barres.....	dis 70 %
Wrought Square.....	dis 70 %
Wrt. Shutter, all Iron, Stanley's list.....	dis 60¢10 %
Wrt. Shutter, Brass Knob, Stanley's list.....	dis 40¢10 %
Wrought Shutter, Sargent's list.....	dis 60¢10 %
Wrought Sunk Flush, Sargent's.....	dis 55¢10 %
Wrought B. K. Flush, Stanley's.....	dis 40¢10 %
Carriage and Tire, Common, new list.....	dis 70¢10 %
Carriage and Tire, Philadelphia Pattern.....	dis 75¢10 %
Carriage Bolts, Clarke's.....	dis 75¢10 %
Norway.....	dis 75¢10 %
R. B. & W. Carriage (old list).....	dis 70 %
Tire, American Screw Co's., Phila.....	dis 82 1/2 %
Tire, "Bay State".....	dis 65¢10 %
Eagle Philadelphia Tire Bolt.....	dis 80 %
Stove.....	dis 67 1/2 %
Plow.....	dis 65 %
Machine.....	dis 70¢10 %
Bolt Nuts and Lag Screws.....	dis 70¢10 %
BOLAX.	
9c 1/2 net.	
BRACES.	
Q. S. Backus.....	dis 40 %
Barber's.....	dis 50 %
Spofford's Patent.....	dis 50¢5 %
Ive's Patent Braces.....	dis 50 %
Common Ball (American).....	45c. net
Amidon's.....	dis 40 %
BORING MACHINES—WITHOUT AUGERS.	
Sweet & Clark upright, 2 1/2 angular.....	3.00 net
Lawrence.....	3.00 net
Habard.....	3.00 net

Phillips, with Augers.....	7.00	7.50.....net
BRACKETS.		
Self, plain.....	dis 50¢10 %	
Self, fancy.....	dis 55¢10 %	
BRIGHT WIRE GOODS.		
New list.....	dis 75¢10 %	
BULL RINGS.		
Union Nut Co.....	dis 55 %	
Sargent's.....	dis 60¢10 %	
Humason, Beckley & Co's.....	dis 70 %	
BUTTS.		
Wrought Brass.....	dis 80 %	
Cast Brass, Fast Joint.....	dis 35 1/2 %	
Cast Brass, Loose Joint.....	dis 33 1/2 %	
Fast Joint, Narrow.....	dis 60¢5 %	
Fast Joint, Broad.....	dis 60¢5 %	
Loose Joint.....	dis 70¢10 %	
Loose Joint, Japanned.....	dis 70¢10 %	
Loose Joint, Jap, with Acorns.....	dis 70¢10 %	
Parliament Butts.....	dis 70¢10 %	
Mayer's Hinges.....	dis 70¢10 %	
Loose Pin, no Acorn.....	dis 70¢10 %	
Loose Pin, Acorns.....	dis 70¢10 %	
Loose Pin, Acorns, Japanned.....	dis 70¢10 %	
Loose Pin, Acorns, Jap'd, Plated.....	dis 70 %	
Tips.....	dis 70 %	
Wrought Iron.		
Fast Joint, Narrow.....	dis 70 %	
Fast Joint, Lt. Narrow.....	dis 70 %	
Fast Joint, Broad.....	dis 70 %	
Loose Joint, Broad.....	dis 70 %	
Table Butts, Back Flaps, &c.....	dis 70 %	
Inside Blind, Regular.....	dis 70 %	
Inside Blind, Light.....	dis 70 %	
Loose Pin, Wrt.....	dis 70 %	
Loose Pin, Light.....	dis 70 %	
Spring Hinges.		
Geor's Spring and Blank Butts.....	dis 30 %	
Hart Manufacturing Co.....	dis 60¢10 %	
American Spring Hinge Co's.....	dis 25 %	
Gem Spring Hinges.....	dis 25 %	
Blind Butts, Shepard's, Nos. 50 and 60.....	dis 70 %	
Blind Butts, Shepard's, No. 50.....	dis 70 %	
Blind Butts, Shepard's No. 75.....	dis 70 %	
Blind Butts, Lull & Porter.....	dis 80 %	
Blind Butts, Huffer.....	dis 80 %	
Blind Butts, Standard.....	dis 80 %	
Standard Lull & Porter.....	dis 75¢10 %	
BOW PINS.		
Humason, Beckley & Co's.....	dis 55¢5 %	
Sargent & Co's.....	\$19.70 and 21.40; dis 60¢10 %	
Hotchkiss.....	dis 25 %	
BUTCHER'S CLEAVERS.		
Humason & Beckley Mfg. Co.....	dis 30¢5 %	
Bradley's.....	dis 25 %	
Beatty's.....	dis 40 %	
1 2 3 4 5 6 7 8		
\$16.50 19.00 21.50 24.00 27.00 30.00 33.50 36.50		
CAN OPENERS.		
American.....	gross \$3.50	
New Idea.....	gross \$15.00	
No. 4, French.....	1/2 doz \$2.25, dis 55 %	
No. 5, Iron Handle.....	gross \$6.00, dis 45 %	
Sardine Scissors.....	1/2 doz \$7.00, dis 55 %	
Sprague, No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		
Universal.....	1/2 doz \$3.00, dis 33 1/2 %	
CAPS, PERCUSSION.		
U. M. C., F. C. trimmed.....	50c	
U. M. C., F. L. ground.....	65c	dis 20 %
U. M. C., Cen. fire ground.....	70c	
U. M. C., Double W. Proof.....	\$1.40	
G. D. & S. H.....	33c.	dis 10 %
E. B. 1-10, Eley's.....	35c.	
Musket, in 1-10's.....	35c.	
Hicks Ground Edge in Brass Boxes.....	35c.	
CARTRIDGES.		
Rim.....	dis 60¢5 %	
Central Fire, pistol size.....	dis 40¢5 %	
" " Military.....	dis 30¢5 %	
B. B. Caps, Round Balls.....	1.60	
" Swaged Conical.....	1.75	
NEW LIST ON CARTRIDGES.		
Rim-fire, 22 short.....	\$ 5 long.....	\$ 6.00
" 32 ".....	10 ".....	15.50
" 38 ".....	18 ".....	18.00
" 41 ".....	15 ".....	17.50
Central Fire—32, \$11.00; 38, \$13.50; 41, 15.00; 44, \$19.		
CARDS.		
Horse and Curry.....	dis 10 %	
Cotton, new list, Aug, 1883.....	dis 10 %	
Wool, new list, Aug, 1883.....	dis 10 %	
CARPET STRETCHERS.		
Cast Steel, Polished.....	1/2 doz \$5.00, dis 30 %	
Cast Iron, Steel Points.....	1/2 doz \$2.00, dis 50 %	
Bullard's.....	dis 25 %	
CASTERS.		
Bed.....	dis 55 %	
Plate and Shallow Socket.....	dis 55 %	
Deep Socket.....	dis 40 %	
Martin's Patent (Phoenix).....	dis 45 %	
CATTLE LEADERS.		
Humason, Beckley & Co's.....	dis 75 %	
Sargent's.....	dis 70 %	
P. S. & W.....	dis 50 %	
CHAIN.		
German Halter and coil Chain.....	dis 60 %	
Trace, Breast and Fancy.....	dis 50¢10 %	
Oneida Halter Chain (old list).....	dis 45 %	
Galvanized Pump Chain.....	1 lb 6c net	
Jack Chain, Iron.....	dis 75¢10 %	
Jack Chain, Brass.....	dis 75 %	
CHAINS.		
White.....	gross 55c net	
Red.....	gross 75c net	
Blue.....	gross 90c net	
White Cravens.....	gross 13c net	
COTTON LINES.		
Cotton Fish Lines.....	dis 140 %	
Cotton Chalk Lines, 30 feet:		
Nos. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		
0.00. 6.50. 7.00. 7.50.	gu 20 %	gu 20 %
CHISELS.		
Socket Framing, Crossmans.....	dis 65¢5 %	
Socket Framing, Crossmans.....	dis 65¢5 %	
Socket Framing & Firmer.....	No. 1. Extra.	
Socket, Douglass.....	75¢5 %	
Socket, Ohio Tool Co.....	75¢5 %	
Socket, Peck, Stone & Wilcox.....	75¢5 %	
Socket, Corner.....	75¢5 %	
Tanged Firmers, Douglass.....	dis 40¢45 %	
Tanged Firmers, Butcher's.....	\$5.00 to 6	
I. Merrill's Socket and Framing Chisel.....	dis 65¢10 %	
CLAMPS.		
Iron, Screw, Eagle.....	dis 50 %	
Iron, Adjustable, Stearns.....	dis 50¢10 %	
Iron, Cabinet, Sargent's.....	dis 65¢10 %	
Iron, Carriage maker's, Carr & Crawley.....	dis 25 %	
CLIPS, AXLE.		
Norway or Best.....	dis 60¢5 %	
Superior.....	dis 45¢5 %	
Conestogo.....	dis 60¢10 %	
Coal Hods—Griffiths.....	dis 40 %	
COCKS, BRASS.		
Racking, new list.....	dis 55¢10 %	
Globe, new list.....	dis 55¢10 %	
Plain Bibbs.....	dis 55¢10 %	
Ale and Beer, new list.....	dis 55¢10 %	

J. STEVENS ARMS AND TOOL CO.

P. O. BOX 860,

Chicopee Falls, Mass.

MANUFACTURERS OF

Spring Calipers
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DIVIDERS.FINE
Machinists'
TOOLS AND FIREARMS.

—OUR—

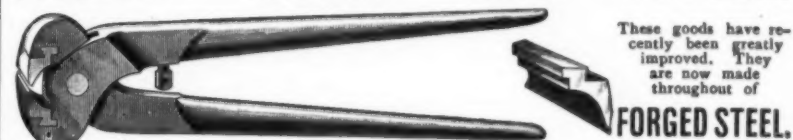
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Anti-Friction.
IT EXCELS ALL OTHERSIn Security of Door.
In Ease of Motion.
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This Hanger and Iron-Clad Track costs less than others that are not as good, and it sells at sight. Requires no oil. Has no flange wheels. Can not break or get off the track.Cronk Hanger Co.
ELMIRA, N. Y.

CAREW'S PATENT WIRE CUTTER.

These goods have recently been greatly improved. They are now made throughout of FORGED STEEL.
The advantage of this cutter is seen at a glance. The adjustable jaws are its main feature. These are made of the best tool steel, and are brought to a keen cutting edge before being tempered. The cutting quality is unsurpassed. Whenever they become dulled by use, they can easily be removed, by driving from the end showing price-mark, ground, and as easily replaced. This may be repeated as often as expedient; or they can be replaced by duplicate jaws, thus obviating the necessity of purchasing new cutters. Five sizes 6, 8, 10, 12 and 14 inch. If your merchant does not keep them, address
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FRED. J. MEYERS MFG. CO.
COVINGTON, KY., Manufacturers of
WIRE GOODS OF ALL KINDS,
Wrought-iron Fencing, Cresting and Hardware Specialties.
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Sand and Grain Riddle.

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The F. F. ADAMS CO.

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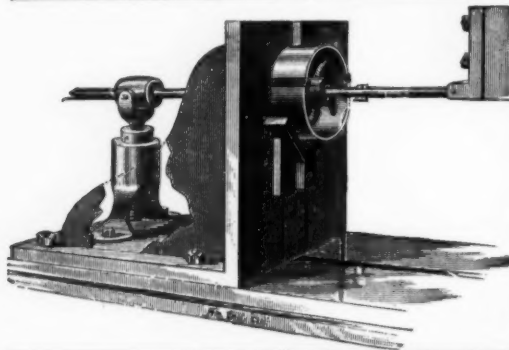
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TRUCKS,

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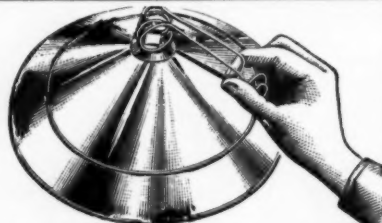
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PATENTKey-Way
CUTTING MACHINE.

Best Key-Way Cutter in the Market.

Gives Perfect Satisfaction.

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STAMFORD, CONN.One 10 and one 12 inch cover will fit tight every sized opening from 8 to 12 inches. The Best Sealing
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THE
PERFECTION BRICK PRESS,An easy-working, quick-operating and powerful
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Brick or Tile Machine.The Wrought-Iron Tempering Wheel,
The most thorough mud temperer known. Tempers
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Write us for pri es.

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Self-Setting TRAP.

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And shuts the door with his own weight,
And then he jumps right through a hole
And thinks he's out; but, bless his soul,
He's in cage, somehow or other,
And sets the trap to catch another."

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Original Unvulcanized PackingCALLED THE STANDARD—As it is the Packing
by which all others
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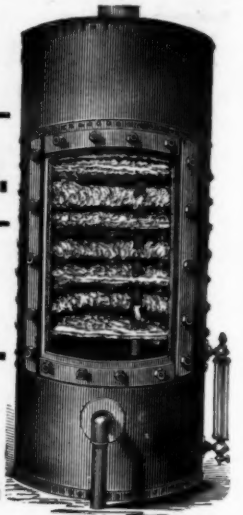
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Removing all impurities from the water before it enters the boiler.

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SILVER PLATED WARE.

Wm. Rogers Manf. Co.dis 50&10
Holmes, Booth & Hayden.....dis 50&10
Wallace's Steel Silver Plated.....dis 33&10
Rogers Bros 1847.....dis 50&5
C. Rogers & Bro.....dis 50&10

SCREWS.

Standard new list, Feb. 15.
Flat Head Bright.....75
Round Head Bright.....70
Flat Head Brass.....70
Round Head Brass.....65
Flat Head Blue (add 5¢ to net).....75
Continental Flat Head.....80
Japanned Flat Head.....70
Coach, Patent Gimlet Point.....dis 66
Coach, Common or Lag.....dis 70
Bed.....dis 45
Machine, Flat Head, Iron.....dis 55
Machine, Round Head, Iron.....dis 50
Bench, Iron.....dis 55
Bench, Wood, Beach.....dis 25
Bench, Wood, Hickory.....dis 25
Hand, Wood.....dis 25
Hand Rail, Sargent's.....dis 40
Hand Rail, Humason, Beckley & Co.'s.....dis 40
Hand Rail, Am. Screw Co., list Jan. 1, '81.....dis 70
Jack (Wilson's).....dis 25

SCREEN FRAMES AND FIXTURES.

Standard Window Screens No. 1, doz \$4; 2, \$5
Door " No. 5, \$15; dis 50&10
Window Corner Irons, No. 3, doz \$1, \$2
Door " No. 6, " \$3
Door Latches, doz \$3.60, dis 50
Porter's Patent Window and Door Screen Frames:

PER DOZ. SETS.
In 1m. Bl'k
White. Walnut.
No. 20.....\$2.75 \$3.25
No. 21.....3.25 4.00
No. 22.....5.50 6.75
No. 23.....6.00 7.50
No. 30.....9.00 11.00

Porter's Corners—
No. 0. Corners and Sticks complete for a three-foot window, doz sets.....\$4
No. 1. Set for Window, doz sets Bronzed, \$2.40; Nickel, \$5.60
No. 1 1/2. " " doz sets, Bronzed, \$3.25; Nickel, \$7.50
No. 4. " " doz sets, Bronzed, \$4.00; Nickel, \$8.00
No. 5. " " or door, doz sets, Bronzed, \$1.20; Nickel, \$3.00
No. 4 1/2. " " or door, doz sets, Bronzed, \$2.00; Nickel, \$4.00
No. 2 1/2. " " Door, doz sets, Bronzed, \$6.75; Nickel, \$15.00
No. 3. " " doz sets, Bronzed, \$12.00; Nickel, \$24.00

Boughton's Adjus. Window and Door Screens, dis 25
Boughton's Adjus. Window and Door Frames, dis 20
Window screen frames (Stuart's).....dis 25

SCISSORS AND SHEARS.

American (Cast) Iron.....dis 70&10
Pruning.....see Pruning Hooks and Shears
Barnard's Lamp Trimmers.....dis 40
Tinners'.....dis 20
Massachusetts.....dis 80&10
Seymour's.....dis 60&10
Jersey Shears.....dis 80
J. Wiss & Son, Nickle, 50&5; Japanned, 60&10

SHEARS.

Sliding Door, M. W. & Co., List.....dis 45&5
Sliding Door, R. & E. list.....dis 60&5
Sliding Door, Patent Roller.....dis 60&10
Sliding Door, Pt. Roller, Hatfield's.....dis 60&10
Sliding Door, Russell's Anti-Friction.....dis 60&10
Also see Hangers.

SHOVELS AND SPADERS.

Ames, New List, November 1 1885.....dis 20
Griffiths.....dis 50&5
Remington's (Lowman's Patent).....dis 30
Rowland's.....dis 60
Lippincott, new list.....dis 25
Hussey, Bins & Co.....dis 25

SILVER PLATED HOLLOW WARE.

Wm. Rogers Manf. Co.....dis 50
Meriden Britannia Co.....dis 40

SOLDERING IRONS AND COPPERS.

Covert's Soldering Irons.....dis 35
Covert's Adjustable Coppers.....dis 35

SPOONS.

Britannia.....dis 60, 10&10
Tinned, Iron, Table and Tea.....dis 60
Tinned Iron Basting.....dis 30
German Silver.....dis 40&5

STONE.

Hindustan No. 1, 4c; Axe, 5c.....net
Sand Stone.....No. 1, 6c, dis 33&10
Washita Stone.....No. 1, 2c, net
Washita Stone, Slips.....No. 1, 4c, net
Arkansas.....dis 50, 10

SQUARES.

Steel.....dis 60&10; full cases, dis 70&10
Iron.....dis 60&10; full cases, dis 70&10
Nickle Plated.....add \$2.50&4, dis 40
Try Square and T Bevels.....dis 50&10
Diston's Try Square and T Bevels.....dis 40

TACKS, BRADS, &C.

American Iron Carpet Tacks, all kinds.....70
Steel Carpet Tacks, all kinds.....70
Swedes Iron Carpet Tacks, all kinds.....70
Swedes Iron Tacks.....67 1/2
Swedes Iron Upholsterers' Tacks.....67 1/2
Tinned Swedes Iron Tacks.....67 1/2
Tinned Swedes Iron Upholsterers' Tacks.....67 1/2
American Iron Cut Tacks.....67 1/2
Gimp and Lace Tacks.....67 1/2
Tinned Gimp and Lace Tacks.....67 1/2
Copper Tacks.....50
Copper Finishing and Trunk Nails.....50
Cigar Box Nails.....45
Finishing Nails.....60
Trunk and Clout Nails.....60
Tinned Trunk and Clout Nails.....60
Basket Nails.....60
Chair Nails.....60
Zinc Glaciers' Points.....45
Common and Patent Brads.....60
Hungarian Nails and Miners' Tacks.....60
Tinned Capped Trunk Nails.....50
Looking Glass Tacks.....40
Picture Frame Points.....40
Leathered Carpet Tacks.....40
Brush Tacks.....40

TAP BORERS.

Common and Ring.....dis 20
Ives' Tap Borers.....dis 15
Enterprise Mfg. Co.....dis 25

TOBACCO CUTTERS.

Enterprise Mfg. Co (Champion).....dis 20
Wood Bottom.....dis 15
All Iron.....dis 30
Vilson's.....dis 40

THERMOMETERS.

Fin Case.....dis 75
In Case.....dis 25

TOE CALS.

Winsted.....dis 9c

TRAPS.

Game, Newhouse.....dis 35
Game, Oneida Pattern.....dis 60
Game, Blake's Patent.....dis 40
Mouse, Wood, Choker.....dis 10
Mouse, Round Wire.....dis 10
Mouse, Wire.....dis 10
Mouse, Catch-em-alive.....dis 10
Cyclon Mouse.....dis 60
Ideal Mouse.....dis 10
Boss.....dis 10
Rat, "Deer".....dis 10
Delusion Mouse, per doz.....dis 50
Ideal.....dis 13

TROWELS.

Lothrop's Brick and Plastering.....dis 30
Reed's Brick and Plastering.....dis 15
Diston's Brick and Plastering.....dis 10
Clement & Maynard's.....dis 20
Worrall's Brick.....dis 20
Brades & Walby's.....dis 20
Garden.....dis 55
Rose's Brick.....dis 15

TRUCKS (WAREHOUSE, &C.)

Handy Truck.....dis 50
Penfield Block Co's list, 1884.....dis 35
Peerless, with Cogs, No. 3.....dis 40
Peerless, with Cogs, No. 4.....dis 60
Eureka, No. 2.....dis 40

VISES.

Cheney's Combined Vise and Anvil.....dis 30
Solid Box—Wilson's.....dis 10
Trenton.....dis 40
Iron City Tool Works.....dis 50
Manner Drill Mfg. Co's—
Machinist's Vise.....dis 50
Bench—Wilson's.....dis 45
Trenton.....dis 25
Parker's.....dis 20
Prentiss.....dis 25
Bonney's.....dis 35
Well Wheels.....dis 60
Stephen's Patent Vises.....dis 60

WIRE.

Brass and Copper, list of Jan. 17, 1884.....dis 25
Bright and Annealed.....Nos. 16&18, dis 60
Bright and Annealed.....Nos. 16&18, dis 65
Bright and Annealed.....Nos. 16&18, dis 65
Coppered.....Nos. 16&18, dis 65
Galvanized, Nos. 0 to 18.....Market list dis 40
Tinned, Nos. 0 to 18.....dis 60
Tinned Broom Wire, Nos. 18 to 25.....dis 60
Annealed Fence, Nos. 8&9.....dis 65
Annealed Grape, Nos. 10 to 14.....dis 65
Fence Staples, Galvanized.....dis 50
Japanned Barb Fence.....dis 40
Galvanized Barb Fence.....dis 50
Buck Thorn Galvanized.....dis 50
Picture Wire.....dis 60
Clothes Line Wire, Galvanized.....dis 75
Wire Cloth, gree, drab and black.....sq ft 5c

WIRE NAILS.

Standard Penny Nails.....dis 75
Wire Nails List, April 13, 1886.....dis 50

WRENCHES.

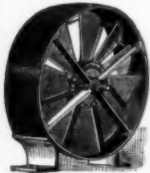
American Adjustable.....dis 45
Baxter's Adjustable "S," list Jan., 1880.....dis 35
Baxter's Diagonal.....dis 40
Coes' Genuine.....dis 60
Coes' "Mechanics".....dis 60
Coes' Pattern, Malleable.....dis 80
Coes' Pattern, Wrought.....dis 80
Girard Standard.....dis 70
Girard Agl.....dis 80
Always Ready.....dis 50
Collins' Wrenches.....dis 50, 10&5

WRINGERS.

Universal, XX, No. 2 1/2.....30.00
Universal, XX, No. 2.....30.00
Universal, XX, No. 1 1/2.....48.00
Universal, XX, No. 1.....63.00
Universal, XX, No. 8.....10.75
Universal, XX, No. 12.....20.25
Universal, XX, No. 18.....22.75
Universal, XX, No. 22.....30.25
Peerless, no Cogs, No. 1.....48.00
Peerless, with Cogs, No. 2 1/2.....45.00
Peerless, with Cogs, No. 2.....48.00

MISCELLANEOUS.

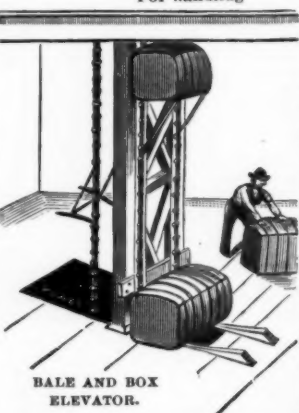
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Rotary Knife Potato Parer.....\$18.00 doz., net
Metallic Shingles.....\$5.50 and \$6.50 per square
Hopper Cherry Seeders.....\$2.75 doz, net



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EXHAUST FANS.
Strong, Light Running, Effective.
Satisfaction guaranteed. Catalogue Free.

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DRIVING BELTS
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Barrels, Boxes, Bales, Grain, Coal, Ores, &c.
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Correspondence solicited.

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It is the only Cut-Off that can be used in any position without extra pipe. Try them and you will use no other. For sale by the trade. Ask your jobber for them.

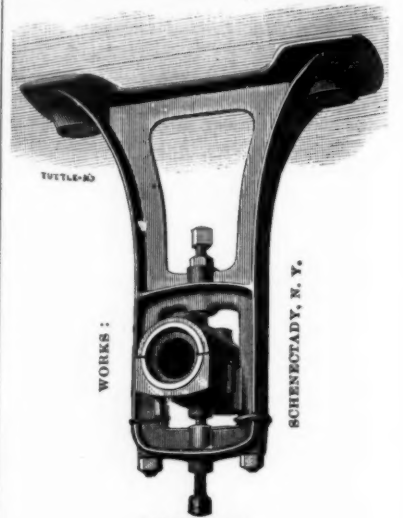
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MANUFACTURER,
25 and 27 E. South St.,
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The following houses are special agents, who will furnish this Cut-Off at manufacturers' prices: G. H. MOSEMAN & CO., New York City; F. H. LAWSON & CO., Cincinnati, Ohio; HASLET, FLANAGAN & CO., Philadelphia, Pa.; L. F. HOFFMAN, San Antonio, Tex.; TROY STAMPING WORKS, Troy, N. Y.

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Machine Molded Pulley Castings
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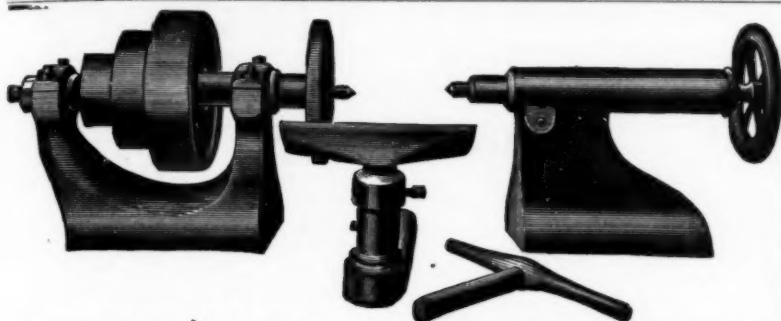
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WIRE CLOTH

Galvanized,
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Emery Grinders, Bolt Cutters,
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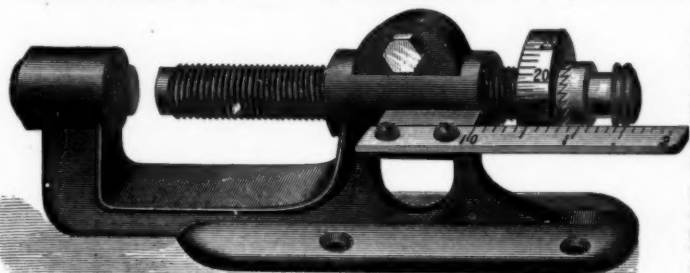
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Progress Engine & Machine Works,

M. C. R. R. SUMMERFIELD, MD.

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Importers of Stubs' Files, Tools and Steel, Smith's Music Wire, Grobet Files,

Church's Improved
BENCH

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CHESTERMAN'S TAPES, VAUTIER TOOLS,

Machinists', Silversmiths', Jewelers', Die Sinkers' and Engravers' SUPPLIES.

GEO. W. MONTGOMERY,
GEO. W. CHURCH.

105 FULTON STREET, NEW YORK.

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Licensed by and Succeeding to the Commercial Business of the

CONSOLIDATED ELECTRIC LIGHT COMPANY.

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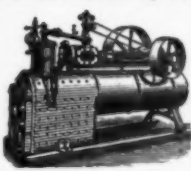
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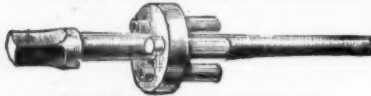
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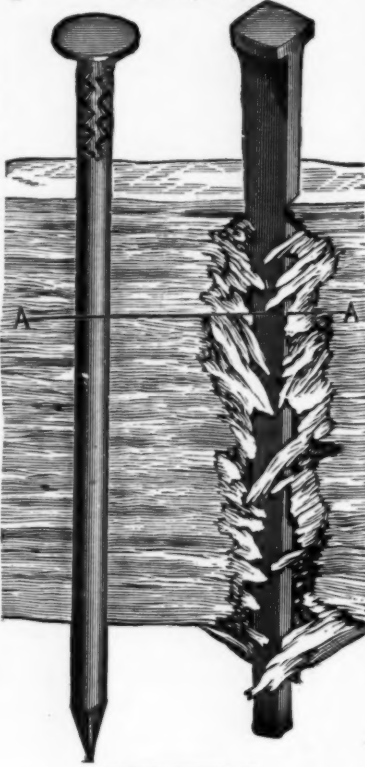
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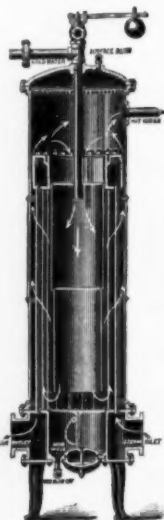
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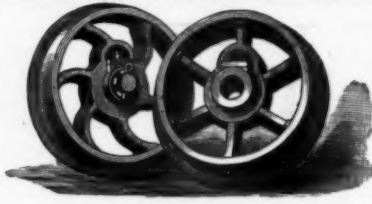
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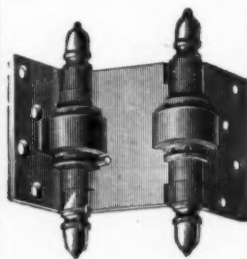


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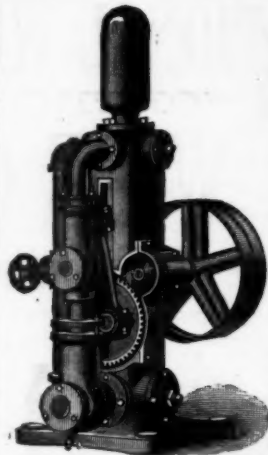
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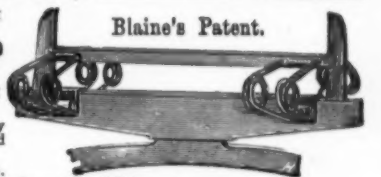
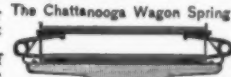
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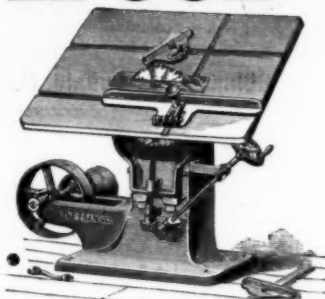
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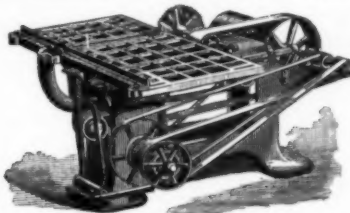
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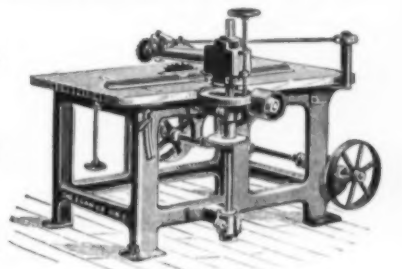
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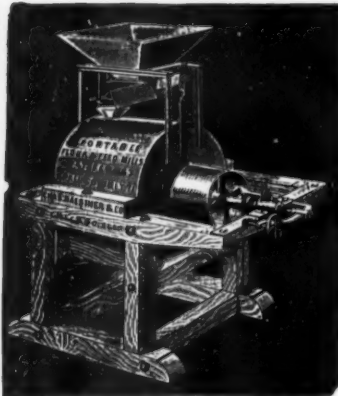
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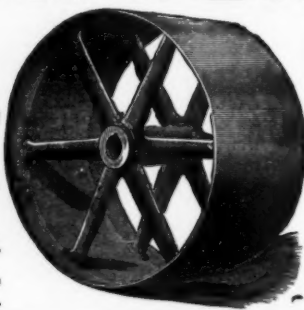
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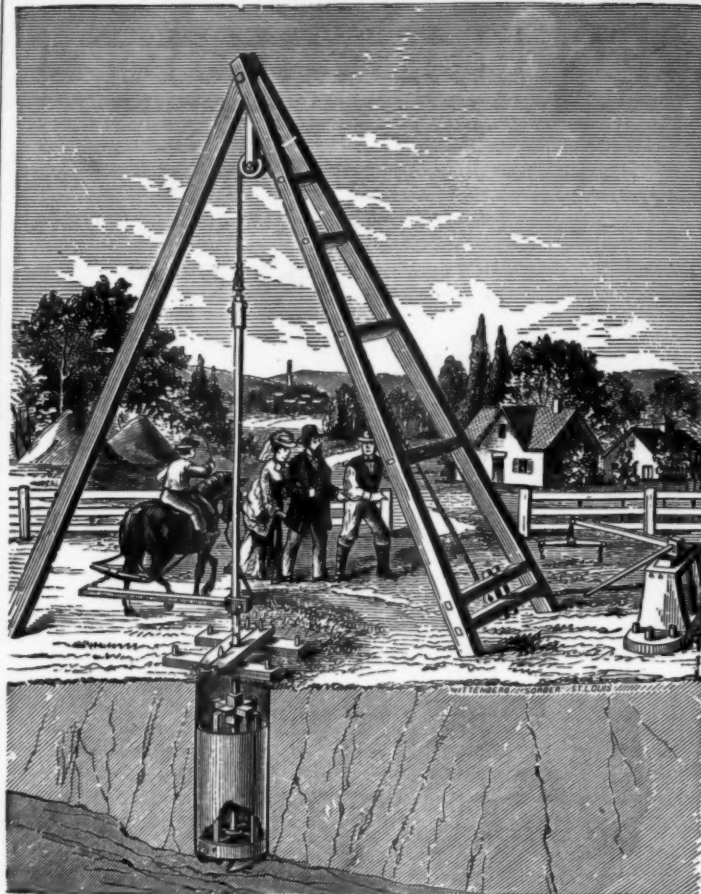
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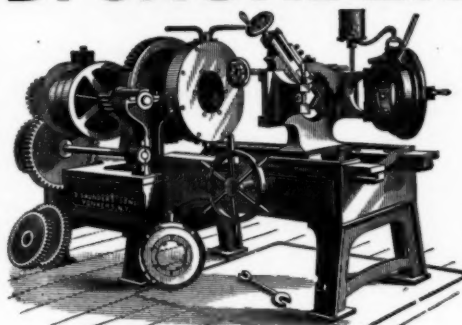
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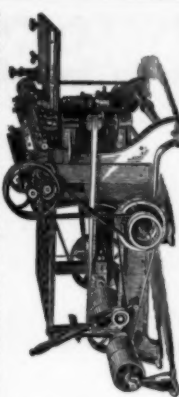
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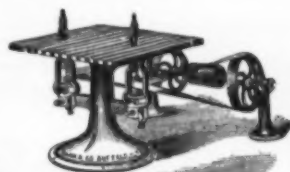
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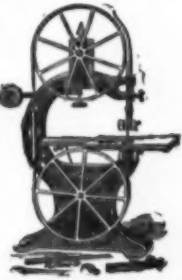
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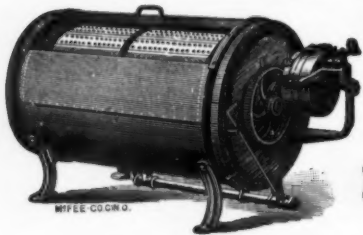
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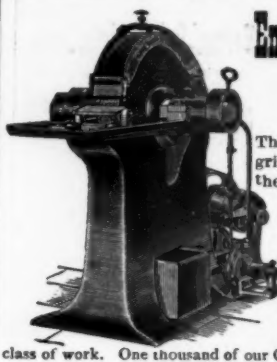
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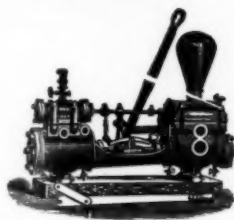
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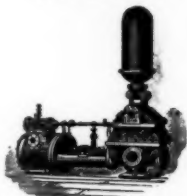
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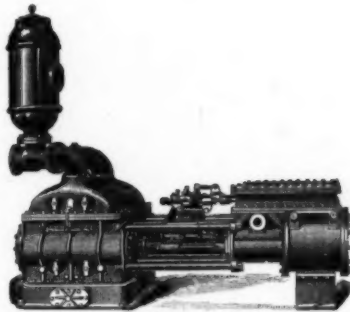
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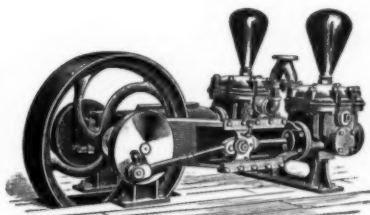
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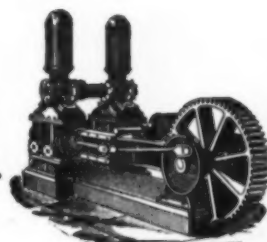
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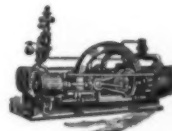
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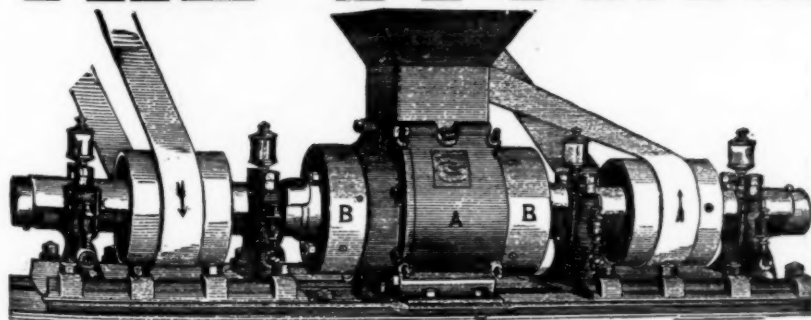
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